

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B4\_1.4MHz\_EIRP

| Band: 4 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                       |            |            |       |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                               | 1710.7          | 1             | 0      | 23.32                 | 2.17       | 25.49      | <=30  | Pass    |
|                                    |                 |               | 2      | 23.39                 | 2.17       | 25.56      | <=30  | Pass    |
|                                    |                 |               | 5      | 23.32                 | 2.17       | 25.49      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 23.28                 | 2.17       | 25.45      | <=30  | Pass    |
|                                    |                 |               | 2      | 23.30                 | 2.17       | 25.47      | <=30  | Pass    |
|                                    |                 |               | 3      | 23.31                 | 2.17       | 25.48      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 22.27                 | 2.17       | 24.44      | <=30  | Pass    |
|                                    | 1732.5          | 1             | 0      | 22.58                 | 2.17       | 24.75      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.49                 | 2.17       | 24.66      | <=30  | Pass    |
|                                    |                 |               | 5      | 22.46                 | 2.17       | 24.63      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 22.44                 | 2.17       | 24.61      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.45                 | 2.17       | 24.62      | <=30  | Pass    |
|                                    |                 |               | 3      | 22.45                 | 2.17       | 24.62      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 21.51                 | 2.17       | 23.68      | <=30  | Pass    |
|                                    | 1754.3          | 1             | 0      | 22.90                 | 2.17       | 25.07      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.88                 | 2.17       | 25.05      | <=30  | Pass    |
|                                    |                 |               | 5      | 22.65                 | 2.17       | 24.82      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 22.87                 | 2.17       | 25.04      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.87                 | 2.17       | 25.04      | <=30  | Pass    |
|                                    |                 |               | 3      | 22.84                 | 2.17       | 25.01      | <=30  | Pass    |
| 16QAM                              | 1710.7          | 1             | 0      | 22.48                 | 2.17       | 24.65      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.52                 | 2.17       | 24.69      | <=30  | Pass    |
|                                    |                 |               | 5      | 22.57                 | 2.17       | 24.74      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 22.28                 | 2.17       | 24.45      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.33                 | 2.17       | 24.50      | <=30  | Pass    |
|                                    |                 |               | 3      | 22.30                 | 2.17       | 24.47      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 21.45                 | 2.17       | 23.62      | <=30  | Pass    |
|                                    | 1732.5          | 1             | 0      | 21.63                 | 2.17       | 23.80      | <=30  | Pass    |
|                                    |                 |               | 2      | 21.76                 | 2.17       | 23.93      | <=30  | Pass    |
|                                    |                 |               | 5      | 21.82                 | 2.17       | 23.99      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 21.53                 | 2.17       | 23.70      | <=30  | Pass    |
|                                    |                 |               | 2      | 21.54                 | 2.17       | 23.71      | <=30  | Pass    |
|                                    |                 |               | 3      | 21.52                 | 2.17       | 23.69      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 20.67                 | 2.17       | 22.84      | <=30  | Pass    |
|                                    | 1754.3          | 1             | 0      | 22.21                 | 2.17       | 24.38      | <=30  | Pass    |
|                                    |                 |               | 2      | 22.18                 | 2.17       | 24.35      | <=30  | Pass    |
|                                    |                 |               | 5      | 22.14                 | 2.17       | 24.31      | <=30  | Pass    |
|                                    |                 | 3             | 0      | 22.01                 | 2.17       | 24.18      | <=30  | Pass    |
|                                    |                 |               | 2      | 21.89                 | 2.17       | 24.06      | <=30  | Pass    |
|                                    |                 |               | 3      | 21.87                 | 2.17       | 24.04      | <=30  | Pass    |
|                                    |                 | 6             | 0      | 21.05                 | 2.17       | 23.22      | <=30  | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain

### 1.1.2 B4\_3MHz\_EIRP

| Band: 4 / Bandwidth: 3MHz / NTNV         |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1711.5          | 1             | 0      | 23.21                 | 2.17       | 25.38      | <=30  | Pass    |
|                                          |                 |               | 7      | 23.38                 | 2.17       | 25.55      | <=30  | Pass    |
|                                          |                 |               | 14     | 23.08                 | 2.17       | 25.25      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 22.35                 | 2.17       | 24.52      | <=30  | Pass    |
|                                          |                 |               | 4      | 22.39                 | 2.17       | 24.56      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.17                 | 2.17       | 24.34      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 22.32                 | 2.17       | 24.49      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.45                 | 2.17       | 24.62      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.43                 | 2.17       | 24.60      | <=30  | Pass    |
|                                          |                 |               | 14     | 22.19                 | 2.17       | 24.36      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 21.30                 | 2.17       | 23.47      | <=30  | Pass    |
|                                          |                 |               | 4      | 21.41                 | 2.17       | 23.58      | <=30  | Pass    |
|                                          |                 |               | 7      | 21.38                 | 2.17       | 23.55      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 21.57                 | 2.17       | 23.74      | <=30  | Pass    |
|                                          | 1753.5          | 1             | 0      | 22.69                 | 2.17       | 24.86      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.89                 | 2.17       | 25.06      | <=30  | Pass    |
|                                          |                 |               | 14     | 22.32                 | 2.17       | 24.49      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 21.87                 | 2.17       | 24.04      | <=30  | Pass    |
|                                          |                 |               | 4      | 21.94                 | 2.17       | 24.11      | <=30  | Pass    |
|                                          |                 |               | 7      | 21.91                 | 2.17       | 24.08      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 21.88                 | 2.17       | 24.05      | <=30  | Pass    |
| 16QAM                                    | 1711.5          | 1             | 0      | 22.48                 | 2.17       | 24.65      | <=30  | Pass    |
|                                          |                 |               | 7      | 22.46                 | 2.17       | 24.63      | <=30  | Pass    |
|                                          |                 |               | 14     | 22.34                 | 2.17       | 24.51      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 21.47                 | 2.17       | 23.64      | <=30  | Pass    |
|                                          |                 |               | 4      | 21.53                 | 2.17       | 23.70      | <=30  | Pass    |
|                                          |                 |               | 7      | 21.43                 | 2.17       | 23.60      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 21.42                 | 2.17       | 23.59      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 21.73                 | 2.17       | 23.90      | <=30  | Pass    |
|                                          |                 |               | 7      | 21.77                 | 2.17       | 23.94      | <=30  | Pass    |
|                                          |                 |               | 14     | 21.73                 | 2.17       | 23.90      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 20.78                 | 2.17       | 22.95      | <=30  | Pass    |
|                                          |                 |               | 4      | 20.80                 | 2.17       | 22.97      | <=30  | Pass    |
|                                          |                 |               | 7      | 20.77                 | 2.17       | 22.94      | <=30  | Pass    |
|                                          |                 | 15            | 0      | 20.70                 | 2.17       | 22.87      | <=30  | Pass    |
|                                          | 1753.5          | 1             | 0      | 22.03                 | 2.17       | 24.20      | <=30  | Pass    |
|                                          |                 |               | 7      | 21.69                 | 2.17       | 23.86      | <=30  | Pass    |
|                                          |                 |               | 14     | 21.96                 | 2.17       | 24.13      | <=30  | Pass    |
|                                          |                 | 8             | 0      | 21.04                 | 2.17       | 23.21      | <=30  | Pass    |
| 4                                        |                 |               | 21.11  | 2.17                  | 23.28      | <=30       | Pass  |         |
| 7                                        |                 |               | 21.07  | 2.17                  | 23.24      | <=30       | Pass  |         |
| 15                                       |                 | 0             | 21.01  | 2.17                  | 23.18      | <=30       | Pass  |         |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

### 1.1.3 B4\_5MHz\_EIRP

| Band: 4 / Bandwidth: 5MHz / NTNV         |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1712.5          | 1             | 0      | 23.28                 | 2.17       | 25.45      | <=30  | Pass    |
|                                          |                 |               | 13     | 23.39                 | 2.17       | 25.56      | <=30  | Pass    |
|                                          |                 |               | 24     | 23.27                 | 2.17       | 25.44      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 22.47                 | 2.17       | 24.64      | <=30  | Pass    |
|                                          |                 |               | 6      | 22.44                 | 2.17       | 24.61      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.36                 | 2.17       | 24.53      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 22.43                 | 2.17       | 24.60      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.72                 | 2.17       | 24.89      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.61                 | 2.17       | 24.78      | <=30  | Pass    |
|                                          |                 |               | 24     | 22.50                 | 2.17       | 24.67      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.71                 | 2.17       | 23.88      | <=30  | Pass    |
|                                          |                 |               | 6      | 21.63                 | 2.17       | 23.80      | <=30  | Pass    |
|                                          |                 |               | 13     | 21.72                 | 2.17       | 23.89      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 21.70                 | 2.17       | 23.87      | <=30  | Pass    |
|                                          | 1752.5          | 1             | 0      | 22.85                 | 2.17       | 25.02      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.65                 | 2.17       | 24.82      | <=30  | Pass    |
|                                          |                 |               | 24     | 22.78                 | 2.17       | 24.95      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.94                 | 2.17       | 24.11      | <=30  | Pass    |
|                                          |                 |               | 6      | 21.99                 | 2.17       | 24.16      | <=30  | Pass    |
|                                          |                 |               | 13     | 21.98                 | 2.17       | 24.15      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 21.98                 | 2.17       | 24.15      | <=30  | Pass    |
| 16QAM                                    | 1712.5          | 1             | 0      | 22.24                 | 2.17       | 24.41      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.60                 | 2.17       | 24.77      | <=30  | Pass    |
|                                          |                 |               | 24     | 22.29                 | 2.17       | 24.46      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.40                 | 2.17       | 23.57      | <=30  | Pass    |
|                                          |                 |               | 6      | 21.39                 | 2.17       | 23.56      | <=30  | Pass    |
|                                          |                 |               | 13     | 21.33                 | 2.17       | 23.50      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 21.39                 | 2.17       | 23.56      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 21.18                 | 2.17       | 23.35      | <=30  | Pass    |
|                                          |                 |               | 13     | 21.89                 | 2.17       | 24.06      | <=30  | Pass    |
|                                          |                 |               | 24     | 21.28                 | 2.17       | 23.45      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 20.83                 | 2.17       | 23.00      | <=30  | Pass    |
|                                          |                 |               | 6      | 20.79                 | 2.17       | 22.96      | <=30  | Pass    |
|                                          |                 |               | 13     | 20.82                 | 2.17       | 22.99      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 20.82                 | 2.17       | 22.99      | <=30  | Pass    |
|                                          | 1752.5          | 1             | 0      | 21.56                 | 2.17       | 23.73      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.17                 | 2.17       | 24.34      | <=30  | Pass    |
|                                          |                 |               | 24     | 22.14                 | 2.17       | 24.31      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.01                 | 2.17       | 23.18      | <=30  | Pass    |
| 6                                        |                 |               | 21.07  | 2.17                  | 23.24      | <=30       | Pass  |         |
| 13                                       |                 |               | 21.08  | 2.17                  | 23.25      | <=30       | Pass  |         |
| 25                                       |                 | 0             | 21.09  | 2.17                  | 23.26      | <=30       | Pass  |         |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

#### 1.1.4 B4\_10MHz\_EIRP

| Band: 4 / Bandwidth: 10MHz / NTNV        |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1715            | 1             | 0      | 23.61                 | 2.17       | 25.78      | <=30  | Pass    |
|                                          |                 |               | 25     | 23.35                 | 2.17       | 25.52      | <=30  | Pass    |
|                                          |                 |               | 49     | 22.96                 | 2.17       | 25.13      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 22.49                 | 2.17       | 24.66      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.37                 | 2.17       | 24.54      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.18                 | 2.17       | 24.35      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 22.35                 | 2.17       | 24.52      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.45                 | 2.17       | 24.62      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.55                 | 2.17       | 24.72      | <=30  | Pass    |
|                                          |                 |               | 49     | 23.14                 | 2.17       | 25.31      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 21.71                 | 2.17       | 23.88      | <=30  | Pass    |
|                                          |                 |               | 13     | 21.72                 | 2.17       | 23.89      | <=30  | Pass    |
|                                          |                 |               | 25     | 21.87                 | 2.17       | 24.04      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 21.81                 | 2.17       | 23.98      | <=30  | Pass    |
|                                          | 1750            | 1             | 0      | 23.11                 | 2.17       | 25.28      | <=30  | Pass    |
|                                          |                 |               | 25     | 23.09                 | 2.17       | 25.26      | <=30  | Pass    |
|                                          |                 |               | 49     | 23.15                 | 2.17       | 25.32      | <=30  | Pass    |
|                                          |                 | 25            | 0      | 22.10                 | 2.17       | 24.27      | <=30  | Pass    |
|                                          |                 |               | 13     | 22.11                 | 2.17       | 24.28      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.11                 | 2.17       | 24.28      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 22.13                 | 2.17       | 24.30      | <=30  | Pass    |
| 16QAM                                    | 1715            | 1             | 0      | 22.84                 | 2.17       | 25.01      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.64                 | 2.17       | 24.81      | <=30  | Pass    |
|                                          |                 |               | 49     | 22.21                 | 2.17       | 24.38      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 22.60                 | 2.17       | 24.77      | <=30  | Pass    |
|                                          |                 |               | 19     | 22.39                 | 2.17       | 24.56      | <=30  | Pass    |
|                                          |                 |               | 38     | 22.14                 | 2.17       | 24.31      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 21.43                 | 2.17       | 23.60      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 21.87                 | 2.17       | 24.04      | <=30  | Pass    |
|                                          |                 |               | 25     | 21.70                 | 2.17       | 23.87      | <=30  | Pass    |
|                                          |                 |               | 49     | 22.08                 | 2.17       | 24.25      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.72                 | 2.17       | 23.89      | <=30  | Pass    |
|                                          |                 |               | 19     | 21.63                 | 2.17       | 23.80      | <=30  | Pass    |
|                                          |                 |               | 38     | 22.07                 | 2.17       | 24.24      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 20.85                 | 2.17       | 23.02      | <=30  | Pass    |
|                                          | 1750            | 1             | 0      | 21.90                 | 2.17       | 24.07      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.06                 | 2.17       | 24.23      | <=30  | Pass    |
|                                          |                 |               | 49     | 22.42                 | 2.17       | 24.59      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 22.13                 | 2.17       | 24.30      | <=30  | Pass    |
| 19                                       |                 |               | 22.10  | 2.17                  | 24.27      | <=30       | Pass  |         |
| 38                                       |                 |               | 22.21  | 2.17                  | 24.38      | <=30       | Pass  |         |
| 27                                       |                 | 23            | 21.25  | 2.17                  | 23.42      | <=30       | Pass  |         |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

### 1.1.5 B4\_15MHz\_EIRP

| Band: 4 / Bandwidth: 15MHz / NTVN        |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1717.5          | 1             | 0      | 23.51                 | 2.17       | 25.68      | <=30  | Pass    |
|                                          |                 |               | 38     | 23.22                 | 2.17       | 25.39      | <=30  | Pass    |
|                                          |                 |               | 74     | 22.58                 | 2.17       | 24.75      | <=30  | Pass    |
|                                          |                 | 36            | 0      | 22.38                 | 2.17       | 24.55      | <=30  | Pass    |
|                                          |                 |               | 18     | 22.21                 | 2.17       | 24.38      | <=30  | Pass    |
|                                          |                 |               | 39     | 21.92                 | 2.17       | 24.09      | <=30  | Pass    |
|                                          |                 | 75            | 0      | 22.69                 | 2.17       | 24.86      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.66                 | 2.17       | 24.83      | <=30  | Pass    |
|                                          |                 |               | 38     | 22.75                 | 2.17       | 24.92      | <=30  | Pass    |
|                                          |                 |               | 74     | 23.21                 | 2.17       | 25.38      | <=30  | Pass    |
|                                          |                 | 36            | 0      | 21.79                 | 2.17       | 23.96      | <=30  | Pass    |
|                                          |                 |               | 18     | 21.85                 | 2.17       | 24.02      | <=30  | Pass    |
|                                          |                 |               | 39     | 22.16                 | 2.17       | 24.33      | <=30  | Pass    |
|                                          |                 | 75            | 0      | 21.97                 | 2.17       | 24.14      | <=30  | Pass    |
|                                          | 1747.5          | 1             | 0      | 22.93                 | 2.17       | 25.10      | <=30  | Pass    |
|                                          |                 |               | 38     | 23.17                 | 2.17       | 25.34      | <=30  | Pass    |
|                                          |                 |               | 74     | 23.16                 | 2.17       | 25.33      | <=30  | Pass    |
|                                          |                 | 36            | 0      | 22.10                 | 2.17       | 24.27      | <=30  | Pass    |
|                                          |                 |               | 18     | 22.18                 | 2.17       | 24.35      | <=30  | Pass    |
|                                          |                 |               | 39     | 22.24                 | 2.17       | 24.41      | <=30  | Pass    |
|                                          |                 | 75            | 0      | 22.18                 | 2.17       | 24.35      | <=30  | Pass    |
| 16QAM                                    | 1717.5          | 1             | 0      | 22.93                 | 2.17       | 25.10      | <=30  | Pass    |
|                                          |                 |               | 38     | 22.48                 | 2.17       | 24.65      | <=30  | Pass    |
|                                          |                 |               | 74     | 22.06                 | 2.17       | 24.23      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 22.54                 | 2.17       | 24.71      | <=30  | Pass    |
|                                          |                 |               | 31     | 22.28                 | 2.17       | 24.45      | <=30  | Pass    |
|                                          |                 |               | 63     | 21.89                 | 2.17       | 24.06      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 21.52                 | 2.17       | 23.69      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 21.89                 | 2.17       | 24.06      | <=30  | Pass    |
|                                          |                 |               | 38     | 22.12                 | 2.17       | 24.29      | <=30  | Pass    |
|                                          |                 |               | 74     | 22.76                 | 2.17       | 24.93      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.68                 | 2.17       | 23.85      | <=30  | Pass    |
|                                          |                 |               | 31     | 21.85                 | 2.17       | 24.02      | <=30  | Pass    |
|                                          |                 |               | 63     | 22.44                 | 2.17       | 24.61      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 20.51                 | 2.17       | 22.68      | <=30  | Pass    |
|                                          | 1747.5          | 1             | 0      | 22.04                 | 2.17       | 24.21      | <=30  | Pass    |
|                                          |                 |               | 38     | 22.52                 | 2.17       | 24.69      | <=30  | Pass    |
|                                          |                 |               | 74     | 22.14                 | 2.17       | 24.31      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 22.07                 | 2.17       | 24.24      | <=30  | Pass    |
|                                          |                 |               | 31     | 22.25                 | 2.17       | 24.42      | <=30  | Pass    |
|                                          |                 |               | 63     | 22.26                 | 2.17       | 24.43      | <=30  | Pass    |
|                                          |                 | 27            | 48     | 21.33                 | 2.17       | 23.50      | <=30  | Pass    |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

### 1.1.6 B4\_20MHz\_EIRP

| Band: 4 / Bandwidth: 20MHz / NTNV        |                 |               |        |                       |            |            |       |         |
|------------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|-------|---------|
| Modulation                               | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          |                 | Size          | Offset |                       |            | Result     | Limit |         |
| QPSK                                     | 1720            | 1             | 0      | 23.72                 | 2.17       | 25.89      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.75                 | 2.17       | 24.92      | <=30  | Pass    |
|                                          |                 |               | 99     | 22.69                 | 2.17       | 24.86      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 22.37                 | 2.17       | 24.54      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.05                 | 2.17       | 24.22      | <=30  | Pass    |
|                                          |                 |               | 50     | 21.85                 | 2.17       | 24.02      | <=30  | Pass    |
|                                          |                 | 100           | 0      | 22.50                 | 2.17       | 24.67      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 22.72                 | 2.17       | 24.89      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.76                 | 2.17       | 24.93      | <=30  | Pass    |
|                                          |                 |               | 99     | 23.65                 | 2.17       | 25.82      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 21.75                 | 2.17       | 23.92      | <=30  | Pass    |
|                                          |                 |               | 25     | 21.93                 | 2.17       | 24.10      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.27                 | 2.17       | 24.44      | <=30  | Pass    |
|                                          | 100             | 0             | 22.02  | 2.17                  | 24.19      | <=30       | Pass  |         |
|                                          | 1745            | 1             | 0      | 22.86                 | 2.17       | 25.03      | <=30  | Pass    |
|                                          |                 |               | 50     | 23.39                 | 2.17       | 25.56      | <=30  | Pass    |
|                                          |                 |               | 99     | 23.51                 | 2.17       | 25.68      | <=30  | Pass    |
|                                          |                 | 50            | 0      | 22.21                 | 2.17       | 24.38      | <=30  | Pass    |
|                                          |                 |               | 25     | 22.42                 | 2.17       | 24.59      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.50                 | 2.17       | 24.67      | <=30  | Pass    |
|                                          |                 | 100           | 0      | 22.38                 | 2.17       | 24.55      | <=30  | Pass    |
| 16QAM                                    | 1720            | 1             | 0      | 22.81                 | 2.17       | 24.98      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.06                 | 2.17       | 24.23      | <=30  | Pass    |
|                                          |                 |               | 99     | 22.05                 | 2.17       | 24.22      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 22.66                 | 2.17       | 24.83      | <=30  | Pass    |
|                                          |                 |               | 44     | 22.02                 | 2.17       | 24.19      | <=30  | Pass    |
|                                          |                 |               | 88     | 21.94                 | 2.17       | 24.11      | <=30  | Pass    |
|                                          |                 | 27            | 0      | 21.54                 | 2.17       | 23.71      | <=30  | Pass    |
|                                          | 1732.5          | 1             | 0      | 21.89                 | 2.17       | 24.06      | <=30  | Pass    |
|                                          |                 |               | 50     | 21.99                 | 2.17       | 24.16      | <=30  | Pass    |
|                                          |                 |               | 99     | 23.07                 | 2.17       | 25.24      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.73                 | 2.17       | 23.90      | <=30  | Pass    |
|                                          |                 |               | 44     | 21.84                 | 2.17       | 24.01      | <=30  | Pass    |
|                                          |                 |               | 88     | 22.65                 | 2.17       | 24.82      | <=30  | Pass    |
|                                          | 27              | 0             | 20.46  | 2.17                  | 22.63      | <=30       | Pass  |         |
|                                          | 1745            | 1             | 0      | 22.11                 | 2.17       | 24.28      | <=30  | Pass    |
|                                          |                 |               | 50     | 22.69                 | 2.17       | 24.86      | <=30  | Pass    |
|                                          |                 |               | 99     | 22.52                 | 2.17       | 24.69      | <=30  | Pass    |
|                                          |                 | 12            | 0      | 21.96                 | 2.17       | 24.13      | <=30  | Pass    |
| 44                                       |                 |               | 22.34  | 2.17                  | 24.51      | <=30       | Pass  |         |
| 88                                       |                 |               | 22.55  | 2.17                  | 24.72      | <=30       | Pass  |         |
| 27                                       |                 | 73            | 21.56  | 2.17                  | 23.73      | <=30       | Pass  |         |
| Note1: EIRP=Conducted Power+Antenna Gain |                 |               |        |                       |            |            |       |         |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B4\_1.4MHz

| Band: 4 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 1710.7          | 6             | 0      | 20         | 3.23          | -3.100           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.8           | -1.100           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.37          | -4.800           | -0.0028               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.8           | -0.900           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.8           | 0.900            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.8           | -2.200           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.8           | -3.600           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.8           | -2.800           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.8           | -0.600           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.8           | -1.800           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.8           | -2.600           | -0.0015               | -2.5 to 2.5 | Pass    |
|                             | 1732.5          | 6             | 0      | 20         | 3.23          | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.8           | -2.900           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.37          | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.8           | -1.500           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.8           | -0.300           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.8           | -2.300           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.8           | -2.100           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.8           | -1.500           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.8           | -0.700           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.8           | 0.000            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.8           | -2.700           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             | 1754.3          | 6             | 0      | 20         | 3.23          | 0.400            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.8           | 0.100            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.37          | 1.500            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.8           | 0.700            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.8           | 0.100            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.8           | 0.100            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.8           | 2.200            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.8           | 2.300            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.8           | 2.500            | 0.0014                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.8           | 0.700            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.8           | 3.000            | 0.0017                | -2.5 to 2.5 | Pass    |
| 16QAM                       | 1710.7          | 6             | 0      | 20         | 3.23          | -2.800           | -0.0016               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.8           | -2.100           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.37          | -4.400           | -0.0026               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.8           | -1.700           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.8           | -1.600           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.8           | 2.700            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.8           | 0.300            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.8           | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.8           | -5.500           | -0.0032               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.8           | -6.300           | -0.0037               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.8           | -1.500           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             | 1732.5          | 6             | 0      | 20         | 3.23          | -0.900           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.8           | 5.200            | 0.0030                | -2.5 to 2.5 | Pass    |

|  |        |   |   |     |      |        |         |             |      |
|--|--------|---|---|-----|------|--------|---------|-------------|------|
|  |        |   |   |     | 4.37 | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 3.8  | 4.300  | 0.0025  | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 3.8  | -2.900 | -0.0017 | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 3.8  | -1.400 | -0.0008 | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 3.8  | 2.200  | 0.0013  | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 3.8  | 0.700  | 0.0004  | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 3.8  | -0.900 | -0.0005 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 3.8  | -4.900 | -0.0028 | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 3.8  | -0.800 | -0.0005 | -2.5 to 2.5 | Pass |
|  | 1754.3 | 6 | 0 | 20  | 3.23 | -3.500 | -0.0020 | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 3.8  | 1.600  | 0.0009  | -2.5 to 2.5 | Pass |
|  |        |   |   |     | 4.37 | 0.800  | 0.0005  | -2.5 to 2.5 | Pass |
|  |        |   |   | -30 | 3.8  | -0.900 | -0.0005 | -2.5 to 2.5 | Pass |
|  |        |   |   | -20 | 3.8  | 3.300  | 0.0019  | -2.5 to 2.5 | Pass |
|  |        |   |   | -10 | 3.8  | 2.400  | 0.0014  | -2.5 to 2.5 | Pass |
|  |        |   |   | 0   | 3.8  | -0.800 | -0.0005 | -2.5 to 2.5 | Pass |
|  |        |   |   | 10  | 3.8  | -4.500 | -0.0026 | -2.5 to 2.5 | Pass |
|  |        |   |   | 30  | 3.8  | -2.600 | -0.0015 | -2.5 to 2.5 | Pass |
|  |        |   |   | 40  | 3.8  | 2.200  | 0.0013  | -2.5 to 2.5 | Pass |
|  |        |   |   | 50  | 3.8  | 1.500  | 0.0009  | -2.5 to 2.5 | Pass |

## 2.1.2 B4\_3MHz

| Band: 4 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1711.5          | 15            | 0      | 20         | 3.23          | 2.500            | 0.0015                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.8           | -0.300           | -0.0002               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.37          | -2.000           | -0.0012               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.8           | -1.000           | -0.0006               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.8           | -8.400           | -0.0049               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.8           | -1.300           | -0.0008               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.8           | 0.900            | 0.0005                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.8           | -6.000           | -0.0035               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.8           | -6.300           | -0.0037               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.8           | -2.900           | -0.0017               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.8           | 0.600            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           | 1732.5          | 15            | 0      | 20         | 3.23          | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.8           | -0.200           | -0.0001               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.37          | -5.000           | -0.0029               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.8           | -1.300           | -0.0008               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.8           | 0.300            | 0.0002                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.8           | -1.900           | -0.0011               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.8           | -3.300           | -0.0019               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.8           | -4.500           | -0.0026               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.8           | -6.400           | -0.0037               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.8           | 0.500            | 0.0003                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.8           | -3.500           | -0.0020               | -2.5 to 2.5 | Pass    |
|                           | 1753.5          | 15            | 0      | 20         | 3.23          | -0.400           | -0.0002               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.8           | -0.300           | -0.0002               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.37          | 4.200            | 0.0024                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.8           | 1.100            | 0.0006                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.8           | -0.200           | -0.0001               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.8           | 1.700            | 0.0010                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.8           | 3.400            | 0.0019                | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |      |        |         |             |      |
|-------|--------|----|---|-----|------|--------|---------|-------------|------|
|       |        |    |   | 10  | 3.8  | -1.400 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.8  | -2.800 | -0.0016 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.8  | 0.200  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.8  | 0.400  | 0.0002  | -2.5 to 2.5 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 20  | 3.23 | 2.400  | 0.0014  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.8  | -2.000 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.37 | 1.000  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.8  | 3.000  | 0.0018  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.8  | -3.900 | -0.0023 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.8  | 2.500  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.8  | 1.500  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.8  | -1.200 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.8  | 0.700  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.8  | -1.700 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.8  | 0.800  | 0.0005  | -2.5 to 2.5 | Pass |
|       | 1732.5 | 15 | 0 | 20  | 3.23 | 2.300  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.8  | 0.800  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.37 | -0.500 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.8  | -3.000 | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.8  | 4.300  | 0.0025  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.8  | 2.700  | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.8  | -0.500 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.8  | 3.700  | 0.0021  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.8  | 0.500  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.8  | 1.900  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.8  | 1.000  | 0.0006  | -2.5 to 2.5 | Pass |
|       | 1753.5 | 15 | 0 | 20  | 3.23 | 2.100  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.8  | 0.700  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.37 | -2.900 | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.8  | -0.700 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.8  | -8.800 | -0.0050 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.8  | 0.600  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.8  | 5.200  | 0.0030  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.8  | -3.700 | -0.0021 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.8  | 1.400  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.8  | 0.600  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.8  | 1.900  | 0.0011  | -2.5 to 2.5 | Pass |

### 2.1.3 B4\_5MHz

| Band: 4 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1712.5          | 25            | 0      | 20         | 3.4           | 0.700            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.8           | -2.800           | -0.0016               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.2           | -4.000           | -0.0023               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.8           | 1.400            | 0.0008                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.8           | -0.200           | -0.0001               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.8           | -0.600           | -0.0004               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.8           | -2.600           | -0.0015               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.8           | -2.100           | -0.0012               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.8           | -7.700           | -0.0045               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.8           | -0.900           | -0.0005               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.8           | -0.400           | -0.0002               | -2.5 to 2.5 | Pass    |
|                           | 1732.5          | 25            | 0      | 20         | 3.4           | -4.000           | -0.0023               | -2.5 to 2.5 | Pass    |

|       |        |    |   |     |     |        |         |             |      |
|-------|--------|----|---|-----|-----|--------|---------|-------------|------|
|       |        |    |   |     | 3.8 | -4.600 | -0.0027 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -0.600 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.8 | 1.700  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.8 | -2.500 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.8 | -3.300 | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.8 | 2.100  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.8 | -1.600 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.8 | 4.100  | 0.0024  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.8 | -1.800 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.8 | -2.700 | -0.0016 | -2.5 to 2.5 | Pass |
|       | 1752.5 | 25 | 0 | 20  | 3.4 | 1.100  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.8 | -1.100 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -2.600 | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.8 | -1.900 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.8 | 5.800  | 0.0033  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.8 | -2.500 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.8 | -1.100 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.8 | 0.400  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.8 | -6.600 | -0.0038 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.8 | -2.600 | -0.0015 | -2.5 to 2.5 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 20  | 3.4 | -1.100 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.8 | -2.200 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -1.300 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.8 | 0.300  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.8 | -4.900 | -0.0029 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.8 | -1.400 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.8 | 2.400  | 0.0014  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.8 | -2.100 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.8 | -2.400 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.8 | -0.900 | -0.0005 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 25 | 0 | 20  | 3.4 | 2.600  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.8 | -0.700 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | 0.300  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.8 | 1.800  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.8 | -3.600 | -0.0021 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.8 | 4.100  | 0.0024  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.8 | 2.200  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.8 | 1.400  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.8 | -3.500 | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.8 | -6.900 | -0.0040 | -2.5 to 2.5 | Pass |
|       | 1752.5 | 25 | 0 | 20  | 3.4 | 1.900  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.4 | -3.200 | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 3.8 | 3.200  | 0.0018  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 4.2 | -4.200 | -0.0024 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 3.8 | 1.300  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 3.8 | 0.500  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 3.8 | -1.000 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 3.8 | 1.600  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 3.8 | 5.500  | 0.0031  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 3.8 | 2.800  | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 3.8 | 3.500  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 3.8 | 1.200  | 0.0007  | -2.5 to 2.5 | Pass |

## 2.1.4 B4\_10MHz

| Band: 4 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1715            | 50            | 0      | 20         | 3.4           | -2.400           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.8           | -5.200           | -0.0030               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -5.400           | -0.0031               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.8           | -3.300           | -0.0019               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.8           | -0.200           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.8           | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.8           | -2.300           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.8           | -2.600           | -0.0015               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.8           | -2.000           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.8           | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.8           | -1.000           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 50            | 0      | 20         | 3.4           | 1.600            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.8           | -0.600           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | 2.100            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.8           | 0.000            | 0.0000                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.8           | 2.000            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.8           | 1.300            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.8           | 0.400            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.8           | -1.600           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.8           | -6.000           | -0.0035               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.8           | 0.400            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.8           | -3.400           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            | 1750            | 50            | 0      | 20         | 3.4           | 0.800            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.8           | 1.400            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -2.400           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.8           | 4.500            | 0.0026                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.8           | -0.500           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.8           | 1.200            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.8           | 0.800            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.8           | -2.200           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.8           | 5.100            | 0.0029                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.8           | -1.500           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.8           | 2.600            | 0.0015                | -2.5 to 2.5 | Pass    |
| 16QAM                      | 1715            | 27            | 0      | 20         | 3.4           | -1.400           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.8           | 2.000            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -1.900           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.8           | -2.700           | -0.0016               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.8           | -0.400           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.8           | 0.400            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.8           | -2.700           | -0.0016               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.8           | 1.800            | 0.0010                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.8           | -2.400           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.8           | 3.000            | 0.0017                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.8           | 6.000            | 0.0035                | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 27            | 0      | 20         | 3.4           | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.8           | -1.400           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | 1.400            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.8           | 4.300            | 0.0025                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.8           | 1.600            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.8           | -2.700           | -0.0016               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.8           | -1.100           | -0.0006               | -2.5 to 2.5 | Pass    |

|  |      |    |    |     |     |        |         |             |      |
|--|------|----|----|-----|-----|--------|---------|-------------|------|
|  |      |    |    | 10  | 3.8 | 1.200  | 0.0007  | -2.5 to 2.5 | Pass |
|  |      |    |    | 30  | 3.8 | -2.100 | -0.0012 | -2.5 to 2.5 | Pass |
|  |      |    |    | 40  | 3.8 | 0.400  | 0.0002  | -2.5 to 2.5 | Pass |
|  |      |    |    | 50  | 3.8 | -5.000 | -0.0029 | -2.5 to 2.5 | Pass |
|  | 1750 | 27 | 23 | 20  | 3.4 | -1.200 | -0.0007 | -2.5 to 2.5 | Pass |
|  |      |    |    |     | 3.8 | 4.100  | 0.0023  | -2.5 to 2.5 | Pass |
|  |      |    |    |     | 4.2 | 0.500  | 0.0003  | -2.5 to 2.5 | Pass |
|  |      |    |    | -30 | 3.8 | -1.200 | -0.0007 | -2.5 to 2.5 | Pass |
|  |      |    |    | -20 | 3.8 | -0.400 | -0.0002 | -2.5 to 2.5 | Pass |
|  |      |    |    | -10 | 3.8 | -1.200 | -0.0007 | -2.5 to 2.5 | Pass |
|  |      |    |    | 0   | 3.8 | 0.500  | 0.0003  | -2.5 to 2.5 | Pass |
|  |      |    |    | 10  | 3.8 | -3.100 | -0.0018 | -2.5 to 2.5 | Pass |
|  |      |    |    | 30  | 3.8 | -3.000 | -0.0017 | -2.5 to 2.5 | Pass |
|  |      |    |    | 40  | 3.8 | 1.400  | 0.0008  | -2.5 to 2.5 | Pass |
|  |      |    |    | 50  | 3.8 | -0.600 | -0.0003 | -2.5 to 2.5 | Pass |

## 2.1.5 B4\_15MHz

| Band: 4 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1717.5          | 75            | 0      | 20         | 3.4           | -5.926           | -0.0035               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.8           | -3.597           | -0.0021               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -1.357           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.8           | -2.195           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.8           | -1.602           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.8           | 0.111            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.8           | -0.171           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.8           | -2.652           | -0.0015               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.8           | -0.166           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.8           | -1.246           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.8           | -1.318           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 75            | 0      | 20         | 3.4           | -4.200           | -0.0024               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.8           | -4.400           | -0.0025               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -4.300           | -0.0025               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.8           | -2.900           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.8           | -0.700           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.8           | -0.200           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.8           | -2.500           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.8           | -2.800           | -0.0016               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.8           | -5.500           | -0.0032               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.8           | -4.700           | -0.0027               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.8           | 0.800            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            | 1747.5          | 75            | 0      | 20         | 3.4           | -0.500           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.8           | 0.700            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.2           | -3.500           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.8           | -0.800           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.8           | -0.900           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.8           | -1.100           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.8           | 3.400            | 0.0019                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.8           | 1.000            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.8           | -2.100           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.8           | -1.200           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.8           | -2.200           | -0.0013               | -2.5 to 2.5 | Pass    |
| 16QAM                      | 1717.5          | 27            | 0      | 20         | 3.4           | -1.500           | -0.0009               | -2.5 to 2.5 | Pass    |

|  |        |     |        |         |             |        |         |             |      |
|--|--------|-----|--------|---------|-------------|--------|---------|-------------|------|
|  |        |     |        |         | 3.8         | -1.600 | -0.0009 | -2.5 to 2.5 | Pass |
|  |        |     |        |         | 4.2         | -9.400 | -0.0055 | -2.5 to 2.5 | Pass |
|  |        |     |        | -30     | 3.8         | -6.400 | -0.0037 | -2.5 to 2.5 | Pass |
|  |        |     |        | -20     | 3.8         | -7.900 | -0.0046 | -2.5 to 2.5 | Pass |
|  |        |     |        | -10     | 3.8         | -2.200 | -0.0013 | -2.5 to 2.5 | Pass |
|  |        |     |        | 0       | 3.8         | -4.200 | -0.0024 | -2.5 to 2.5 | Pass |
|  |        |     |        | 10      | 3.8         | -3.500 | -0.0020 | -2.5 to 2.5 | Pass |
|  |        |     |        | 30      | 3.8         | -2.000 | -0.0012 | -2.5 to 2.5 | Pass |
|  |        |     |        | 40      | 3.8         | -5.300 | -0.0031 | -2.5 to 2.5 | Pass |
|  |        |     |        | 50      | 3.8         | -2.400 | -0.0014 | -2.5 to 2.5 | Pass |
|  | 1732.5 | 27  | 0      | 20      | 3.4         | -2.400 | -0.0014 | -2.5 to 2.5 | Pass |
|  |        |     |        |         | 3.8         | 1.400  | 0.0008  | -2.5 to 2.5 | Pass |
|  |        |     |        |         | 4.2         | -0.400 | -0.0002 | -2.5 to 2.5 | Pass |
|  |        |     |        | -30     | 3.8         | -0.200 | -0.0001 | -2.5 to 2.5 | Pass |
|  |        |     |        | -20     | 3.8         | -4.400 | -0.0025 | -2.5 to 2.5 | Pass |
|  |        |     |        | -10     | 3.8         | -0.800 | -0.0005 | -2.5 to 2.5 | Pass |
|  |        |     |        | 0       | 3.8         | -0.800 | -0.0005 | -2.5 to 2.5 | Pass |
|  |        |     |        | 10      | 3.8         | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|  |        |     |        | 30      | 3.8         | -0.500 | -0.0003 | -2.5 to 2.5 | Pass |
|  |        |     |        | 40      | 3.8         | -4.300 | -0.0025 | -2.5 to 2.5 | Pass |
|  | 50     | 3.8 | -2.100 | -0.0012 | -2.5 to 2.5 | Pass   |         |             |      |
|  | 1747.5 | 27  | 48     | 20      | 3.4         | -1.900 | -0.0011 | -2.5 to 2.5 | Pass |
|  |        |     |        |         | 3.8         | 0.800  | 0.0005  | -2.5 to 2.5 | Pass |
|  |        |     |        |         | 4.2         | -3.000 | -0.0017 | -2.5 to 2.5 | Pass |
|  |        |     |        | -30     | 3.8         | 0.600  | 0.0003  | -2.5 to 2.5 | Pass |
|  |        |     |        | -20     | 3.8         | -2.300 | -0.0013 | -2.5 to 2.5 | Pass |
|  |        |     |        | -10     | 3.8         | -2.400 | -0.0014 | -2.5 to 2.5 | Pass |
|  |        |     |        | 0       | 3.8         | -1.000 | -0.0006 | -2.5 to 2.5 | Pass |
|  |        |     |        | 10      | 3.8         | 0.900  | 0.0005  | -2.5 to 2.5 | Pass |
|  |        |     |        | 30      | 3.8         | -2.000 | -0.0011 | -2.5 to 2.5 | Pass |
|  |        |     |        | 40      | 3.8         | -2.200 | -0.0013 | -2.5 to 2.5 | Pass |
|  | 50     | 3.8 | -1.300 | -0.0007 | -2.5 to 2.5 | Pass   |         |             |      |

## 2.1.6 B4\_20MHz

| Band: 4 / Bandwidth: 20MHz |                    |               |        |               |                  |                     |                       |             |         |
|----------------------------|--------------------|---------------|--------|---------------|------------------|---------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency<br>(MHz) | RB Allocation |        | Temp.<br>(°C) | Voltage<br>(VDC) | Freq. Error<br>(Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                    | Size          | Offset |               |                  |                     | Result                | Limit       |         |
| QPSK                       | 1720               | 100           | 0      | 20            | 3.4              | -5.096              | -0.0030               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        |               | 3.8              | -2.997              | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        |               | 4.2              | -1.923              | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | -30           | 3.8              | -1.752              | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | -20           | 3.8              | -1.440              | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | -10           | 3.8              | -1.976              | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | 0             | 3.8              | -0.379              | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | 10            | 3.8              | -1.709              | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | 30            | 3.8              | -1.423              | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | 40            | 3.8              | 0.137               | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | 50            | 3.8              | -2.053              | -0.0012               | -2.5 to 2.5 | Pass    |
|                            | 1732.5             | 100           | 0      | 20            | 3.4              | 0.700               | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                    |               |        |               | 3.8              | -3.700              | -0.0021               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        |               | 4.2              | -1.800              | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | -30           | 3.8              | -4.100              | -0.0024               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | -20           | 3.8              | -2.800              | -0.0016               | -2.5 to 2.5 | Pass    |
|                            |                    |               |        | -10           | 3.8              | -9.200              | -0.0053               | -2.5 to 2.5 | Pass    |

|       |        |     |    |     |     |         |         |             |      |
|-------|--------|-----|----|-----|-----|---------|---------|-------------|------|
|       |        |     |    | 0   | 3.8 | -2.900  | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.8 | -3.500  | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.8 | -2.500  | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |     |    | 40  | 3.8 | 1.000   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |     |    | 50  | 3.8 | -3.800  | -0.0022 | -2.5 to 2.5 | Pass |
|       | 1745   | 100 | 0  | 20  | 3.4 | -1.200  | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 3.8 | -1.700  | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 4.2 | 1.100   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |     |    | -30 | 3.8 | -0.600  | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |     |    | -20 | 3.8 | -0.300  | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |     |    | -10 | 3.8 | 2.900   | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |     |    | 0   | 3.8 | -6.000  | -0.0034 | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.8 | -2.600  | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.8 | -0.600  | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |     |    | 40  | 3.8 | 1.700   | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |     |    | 50  | 3.8 | 0.700   | 0.0004  | -2.5 to 2.5 | Pass |
| 16QAM | 1720   | 27  | 0  | 20  | 3.4 | -5.100  | -0.0030 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 3.8 | -11.300 | -0.0066 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 4.2 | -4.500  | -0.0026 | -2.5 to 2.5 | Pass |
|       |        |     |    | -30 | 3.8 | -11.100 | -0.0065 | -2.5 to 2.5 | Pass |
|       |        |     |    | -20 | 3.8 | -1.200  | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |     |    | -10 | 3.8 | -7.500  | -0.0044 | -2.5 to 2.5 | Pass |
|       |        |     |    | 0   | 3.8 | -0.900  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.8 | -5.300  | -0.0031 | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.8 | -0.900  | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |     |    | 40  | 3.8 | -3.900  | -0.0023 | -2.5 to 2.5 | Pass |
|       |        |     |    | 50  | 3.8 | -0.800  | -0.0005 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 27  | 0  | 20  | 3.4 | -4.200  | -0.0024 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 3.8 | -3.300  | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 4.2 | -3.300  | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |     |    | -30 | 3.8 | -0.400  | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |     |    | -20 | 3.8 | -2.600  | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |     |    | -10 | 3.8 | -5.100  | -0.0029 | -2.5 to 2.5 | Pass |
|       |        |     |    | 0   | 3.8 | 1.600   | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.8 | -5.000  | -0.0029 | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.8 | -0.700  | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |     |    | 40  | 3.8 | -3.300  | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |     |    | 50  | 3.8 | 4.900   | 0.0028  | -2.5 to 2.5 | Pass |
|       | 1745   | 27  | 73 | 20  | 3.4 | 1.000   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 3.8 | 1.800   | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |     |    |     | 4.2 | -3.100  | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |     |    | -30 | 3.8 | -2.300  | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |     |    | -20 | 3.8 | -2.600  | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |     |    | -10 | 3.8 | -2.700  | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |     |    | 0   | 3.8 | 1.800   | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |     |    | 10  | 3.8 | 1.000   | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |     |    | 30  | 3.8 | 3.000   | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |     |    | 40  | 3.8 | -4.900  | -0.0028 | -2.5 to 2.5 | Pass |
|       |        |     |    | 50  | 3.8 | 3.100   | 0.0018  | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

### 3.1.1 Band4\_OBW

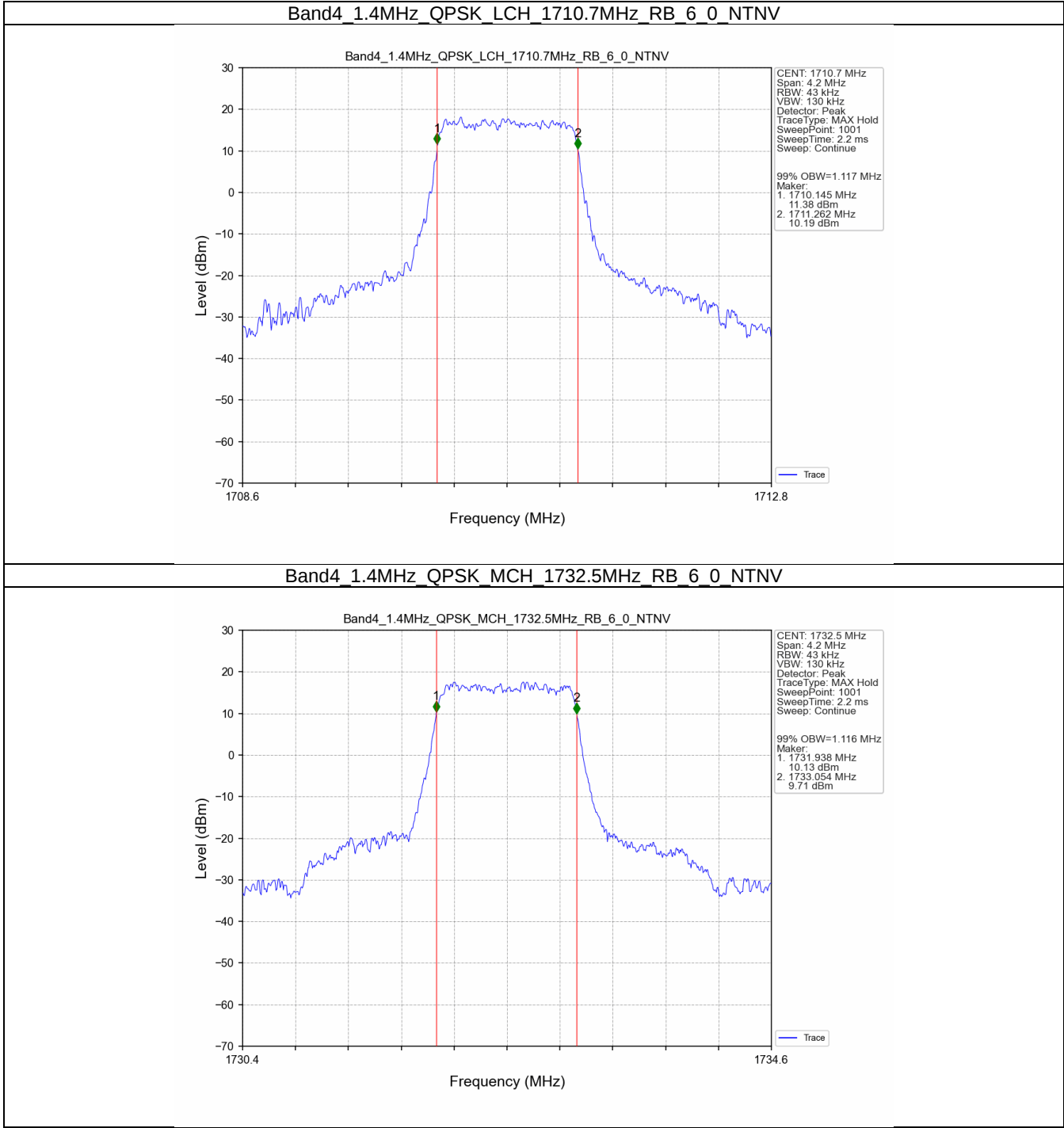
| Band: 4 / NTNV  |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 1710.7          | 6             | 0      | 1.117                        | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.116                        | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.115                        | /     | Pass    |
|                 | 16QAM      | 1710.7          | 6             | 0      | 1.120                        | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.115                        | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.120                        | /     | Pass    |
| 3               | QPSK       | 1711.5          | 15            | 0      | 2.741                        | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 2.728                        | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 2.725                        | /     | Pass    |
|                 | 16QAM      | 1711.5          | 15            | 0      | 2.730                        | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 2.728                        | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 2.718                        | /     | Pass    |
| 5               | QPSK       | 1712.5          | 25            | 0      | 4.553                        | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 4.539                        | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 4.537                        | /     | Pass    |
|                 | 16QAM      | 1712.5          | 25            | 0      | 4.529                        | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 4.537                        | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 4.529                        | /     | Pass    |
| 10              | QPSK       | 1715            | 50            | 0      | 9.074                        | /     | Pass    |
|                 |            | 1732.5          | 50            | 0      | 9.091                        | /     | Pass    |
|                 |            | 1750            | 50            | 0      | 9.108                        | /     | Pass    |
|                 | 16QAM      | 1715            | 27            | 0      | 5.092                        | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 5.110                        | /     | Pass    |
|                 |            | 1750            | 27            | 23     | 5.104                        | /     | Pass    |
| 15              | QPSK       | 1717.5          | 75            | 0      | 13.659                       | /     | Pass    |
|                 |            | 1732.5          | 75            | 0      | 13.611                       | /     | Pass    |
|                 |            | 1747.5          | 75            | 0      | 13.610                       | /     | Pass    |
|                 | 16QAM      | 1717.5          | 27            | 0      | 5.422                        | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 5.453                        | /     | Pass    |
|                 |            | 1747.5          | 27            | 48     | 5.400                        | /     | Pass    |
| 20              | QPSK       | 1720            | 100           | 0      | 18.155                       | /     | Pass    |
|                 |            | 1732.5          | 100           | 0      | 18.135                       | /     | Pass    |
|                 |            | 1745            | 100           | 0      | 18.089                       | /     | Pass    |
|                 | 16QAM      | 1720            | 27            | 0      | 5.647                        | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 5.744                        | /     | Pass    |
|                 |            | 1745            | 27            | 73     | 5.651                        | /     | Pass    |

### 3.1.2 Band4\_XDB

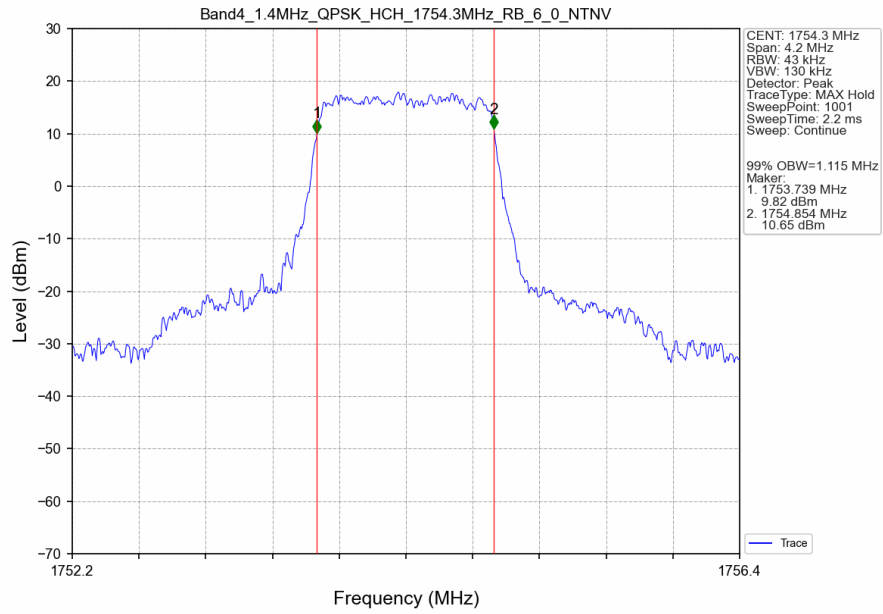
| Band: 4 / NTNV  |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 1710.7          | 6             | 0      | 1.335                | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.337                | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.330                | /     | Pass    |
|                 | 16QAM      | 1710.7          | 6             | 0      | 1.323                | /     | Pass    |
|                 |            | 1732.5          | 6             | 0      | 1.354                | /     | Pass    |
|                 |            | 1754.3          | 6             | 0      | 1.313                | /     | Pass    |
| 3               | QPSK       | 1711.5          | 15            | 0      | 3.028                | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 3.057                | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 3.055                | /     | Pass    |
|                 | 16QAM      | 1711.5          | 15            | 0      | 3.051                | /     | Pass    |
|                 |            | 1732.5          | 15            | 0      | 3.048                | /     | Pass    |
|                 |            | 1753.5          | 15            | 0      | 3.041                | /     | Pass    |
| 5               | QPSK       | 1712.5          | 25            | 0      | 5.074                | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 5.113                | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 5.069                | /     | Pass    |
|                 | 16QAM      | 1712.5          | 25            | 0      | 5.148                | /     | Pass    |
|                 |            | 1732.5          | 25            | 0      | 5.070                | /     | Pass    |
|                 |            | 1752.5          | 25            | 0      | 5.017                | /     | Pass    |
| 10              | QPSK       | 1715            | 50            | 0      | 10.452               | /     | Pass    |
|                 |            | 1732.5          | 50            | 0      | 10.287               | /     | Pass    |
|                 |            | 1750            | 50            | 0      | 10.288               | /     | Pass    |
|                 | 16QAM      | 1715            | 27            | 0      | 6.386                | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 6.217                | /     | Pass    |
|                 |            | 1750            | 27            | 23     | 6.320                | /     | Pass    |
| 15              | QPSK       | 1717.5          | 75            | 0      | 15.502               | /     | Pass    |
|                 |            | 1732.5          | 75            | 0      | 15.515               | /     | Pass    |
|                 |            | 1747.5          | 75            | 0      | 15.482               | /     | Pass    |
|                 | 16QAM      | 1717.5          | 27            | 0      | 7.134                | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 7.077                | /     | Pass    |
|                 |            | 1747.5          | 27            | 48     | 7.025                | /     | Pass    |
| 20              | QPSK       | 1720            | 100           | 0      | 20.451               | /     | Pass    |
|                 |            | 1732.5          | 100           | 0      | 20.541               | /     | Pass    |
|                 |            | 1745            | 100           | 0      | 20.244               | /     | Pass    |
|                 | 16QAM      | 1720            | 27            | 0      | 7.523                | /     | Pass    |
|                 |            | 1732.5          | 27            | 0      | 7.475                | /     | Pass    |
|                 |            | 1745            | 27            | 73     | 7.570                | /     | Pass    |

3.2 Test Graph

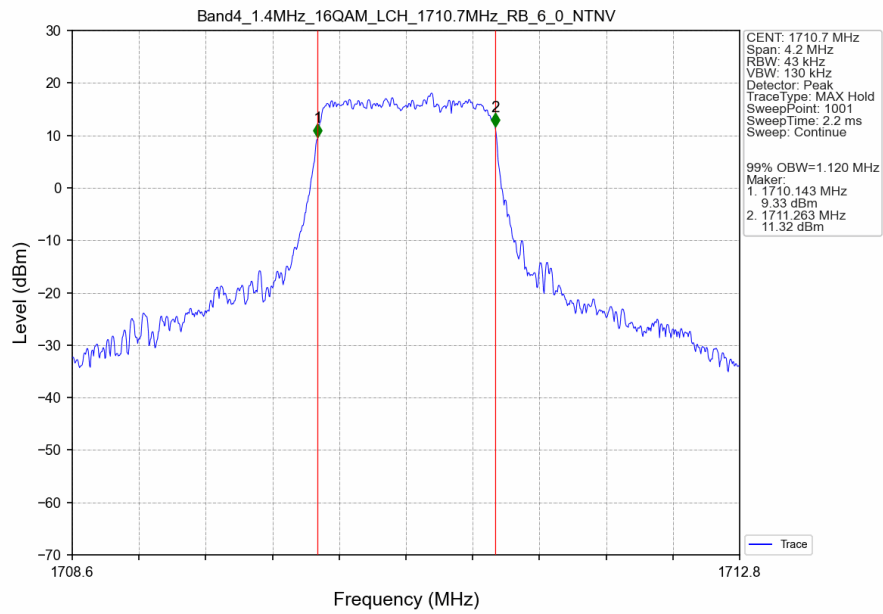
3.2.1 Band4\_OBW



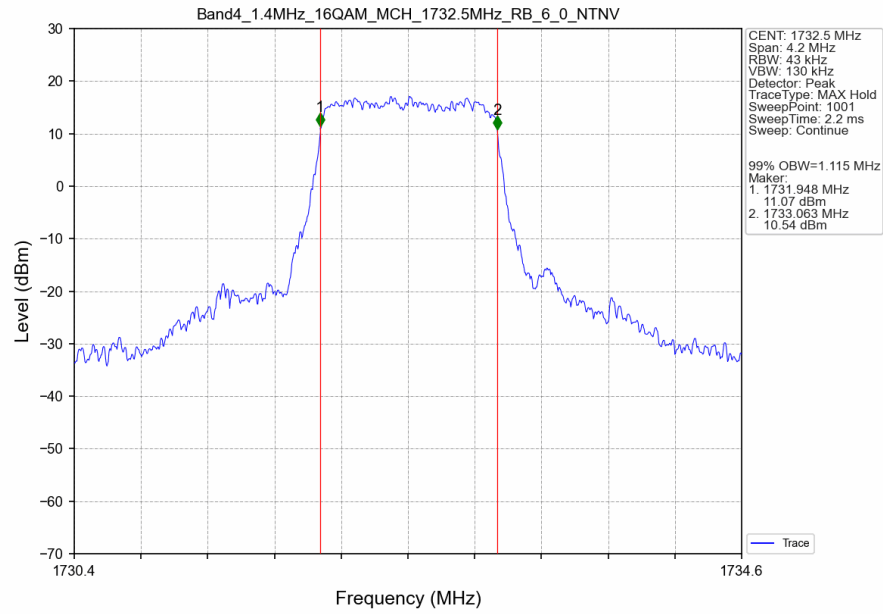
# Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



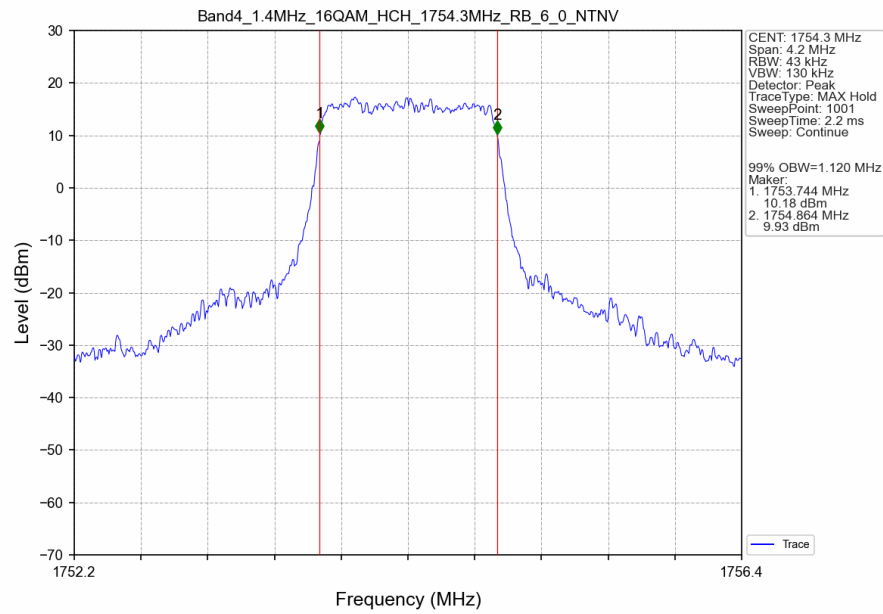
# Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



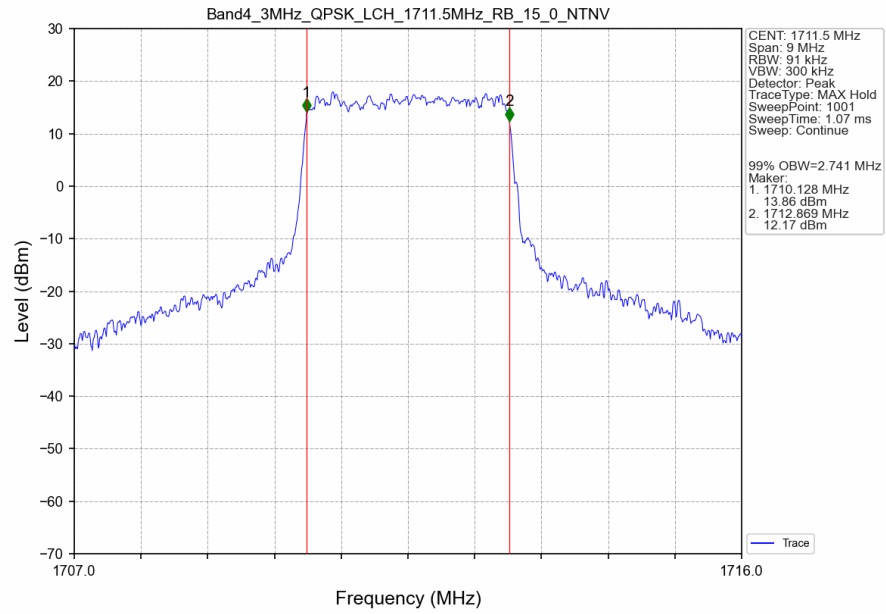
# Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



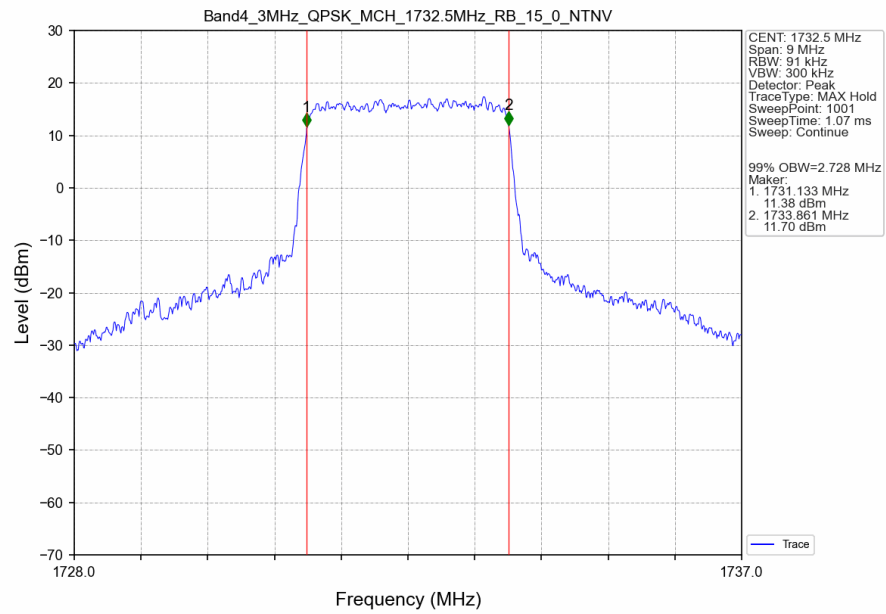
# Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



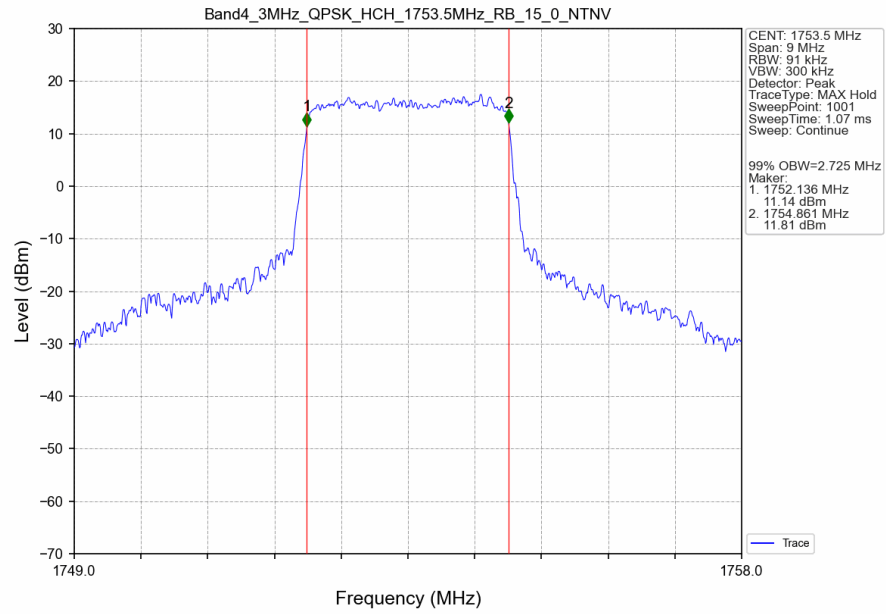
### Band4 3MHz QPSK LCH 1711.5MHz RB 15\_0 NTN



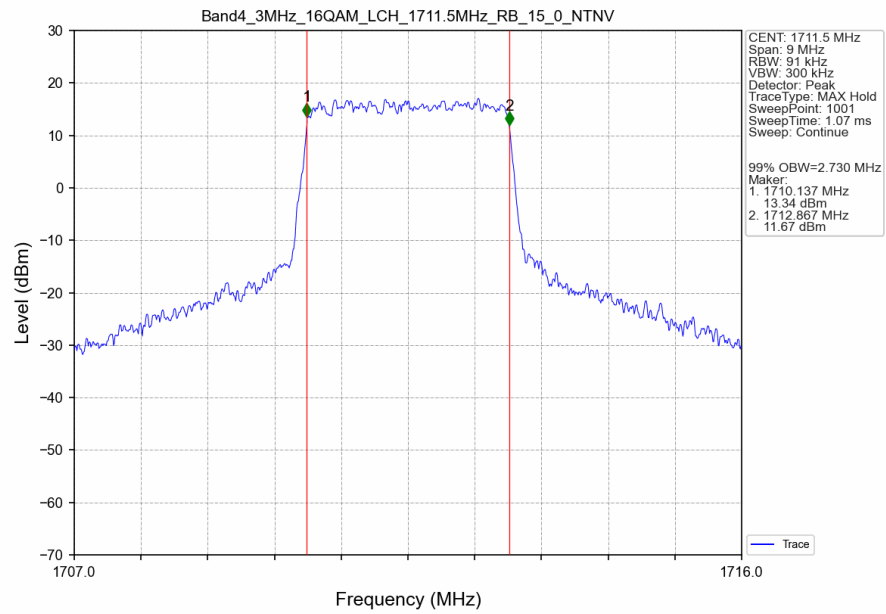
### Band4 3MHz QPSK MCH 1732.5MHz RB 15\_0 NTN



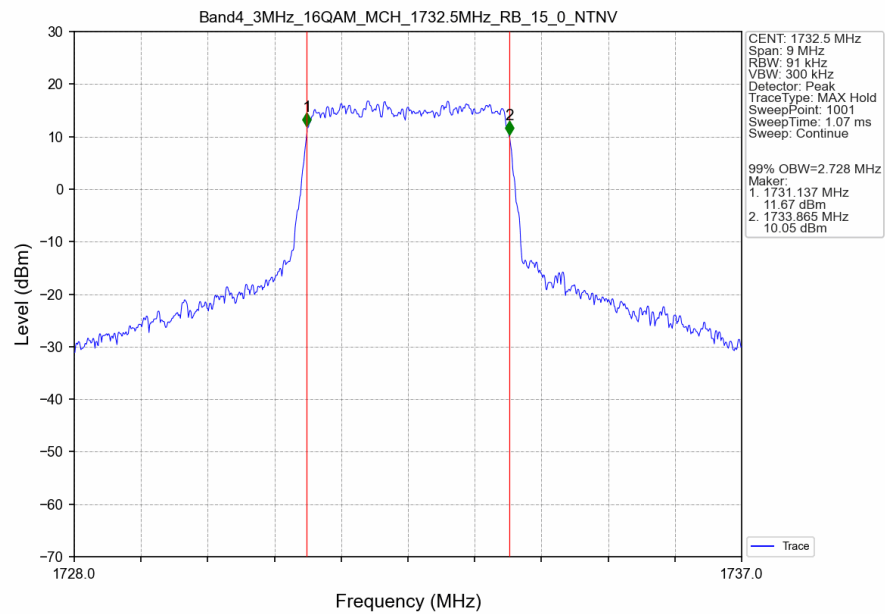
### Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



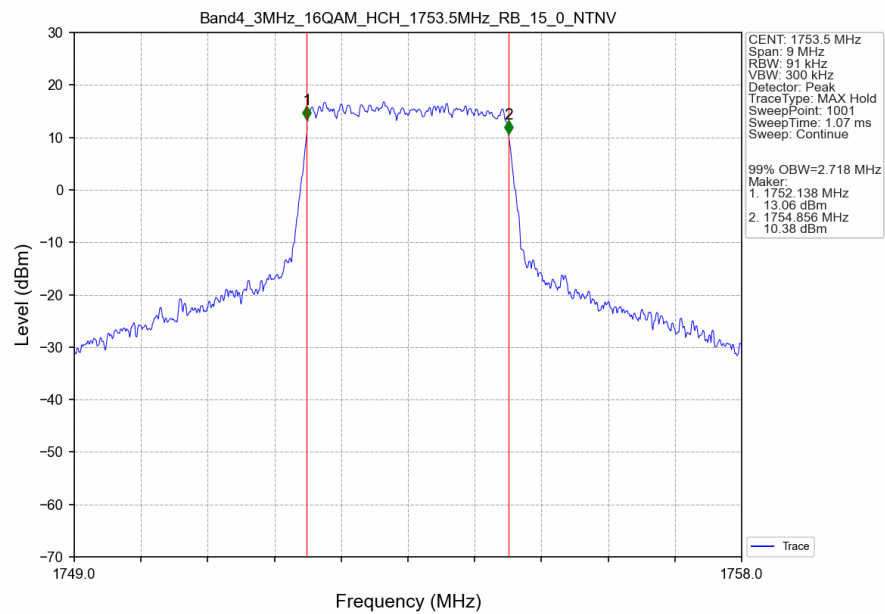
### Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



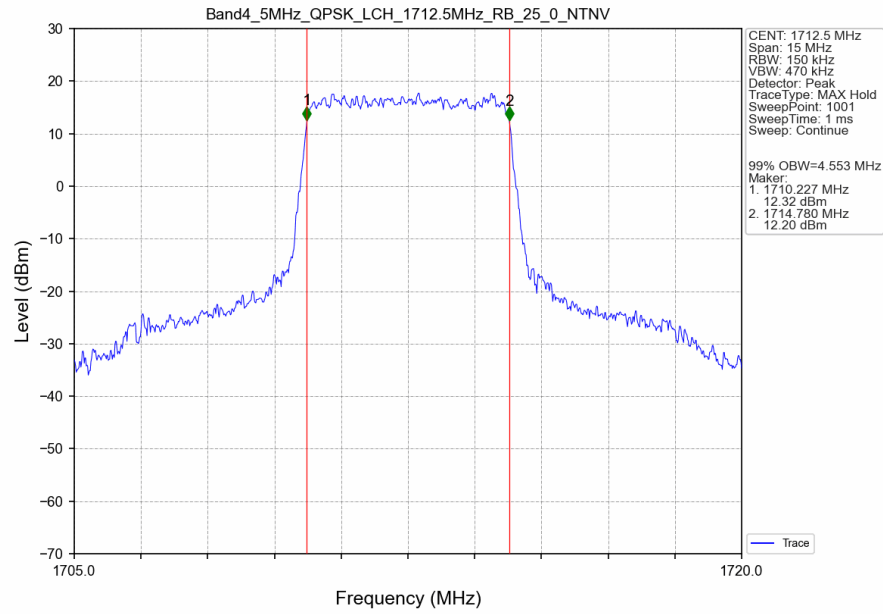
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



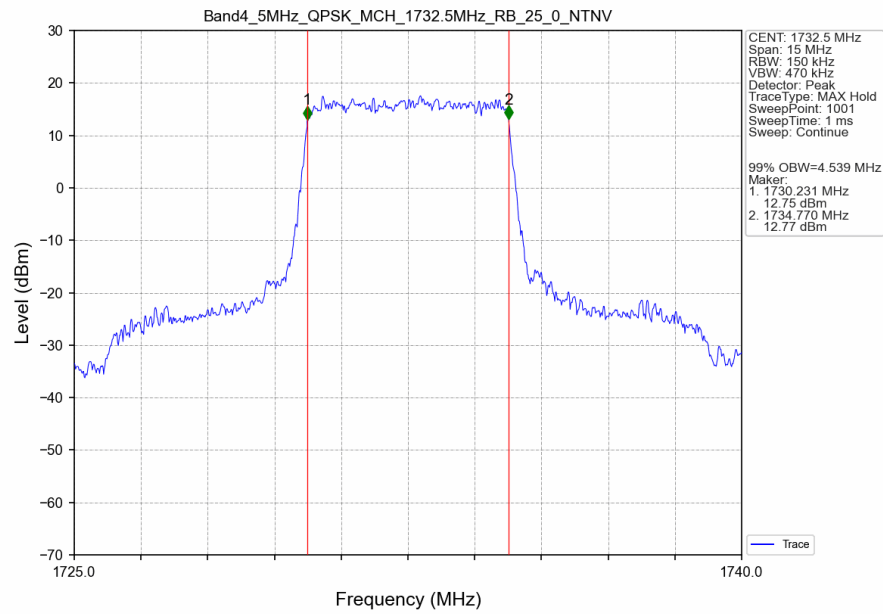
Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



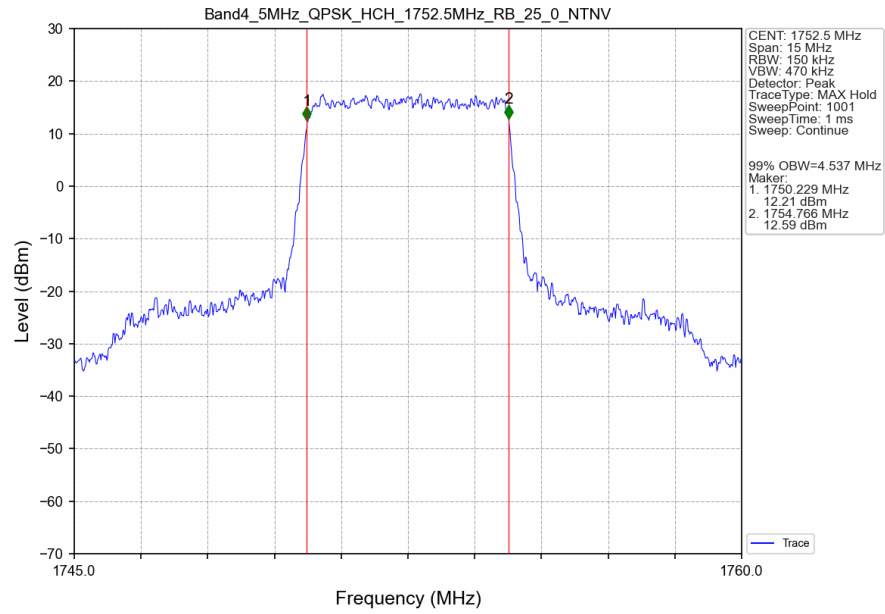
### Band4 5MHz QPSK LCH 1712.5MHz RB 25\_0 NTN



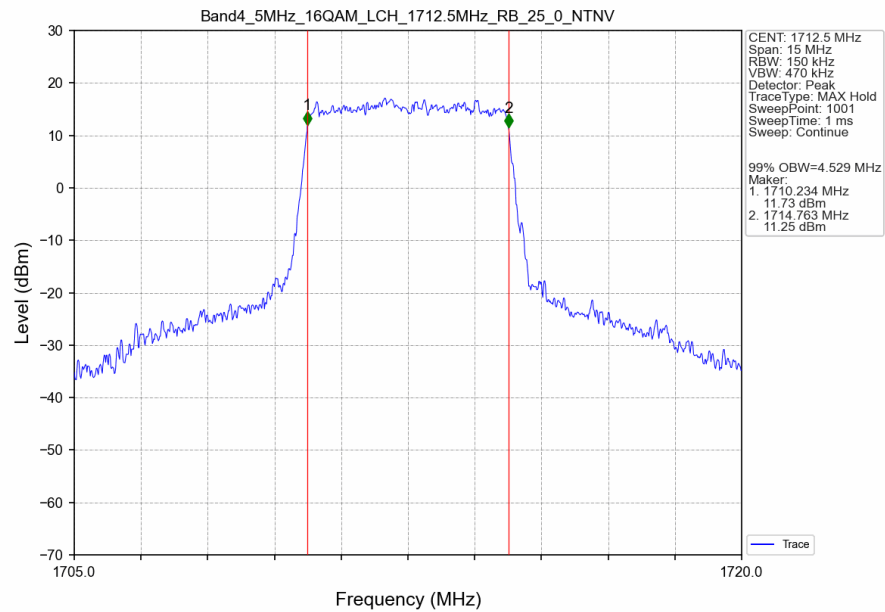
### Band4 5MHz QPSK MCH 1732.5MHz RB 25\_0 NTN



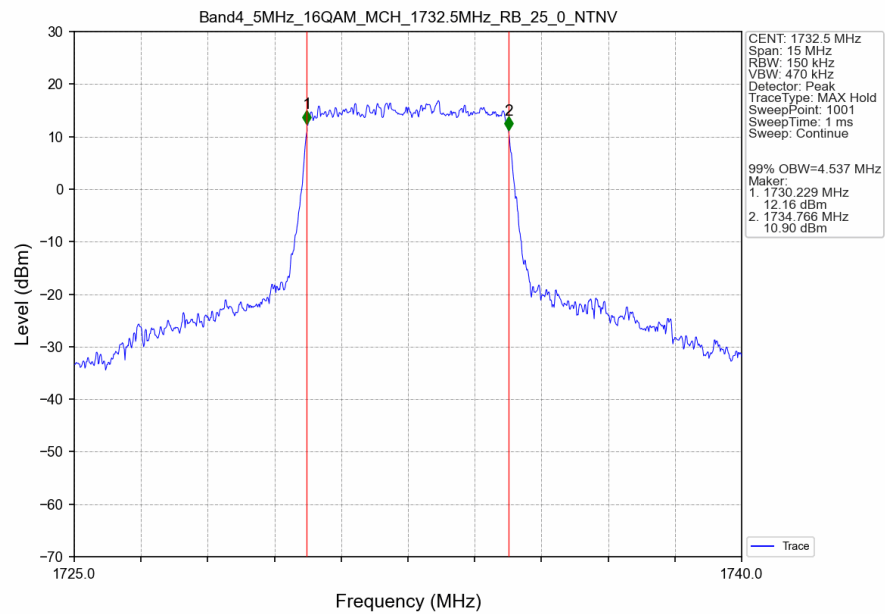
# Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



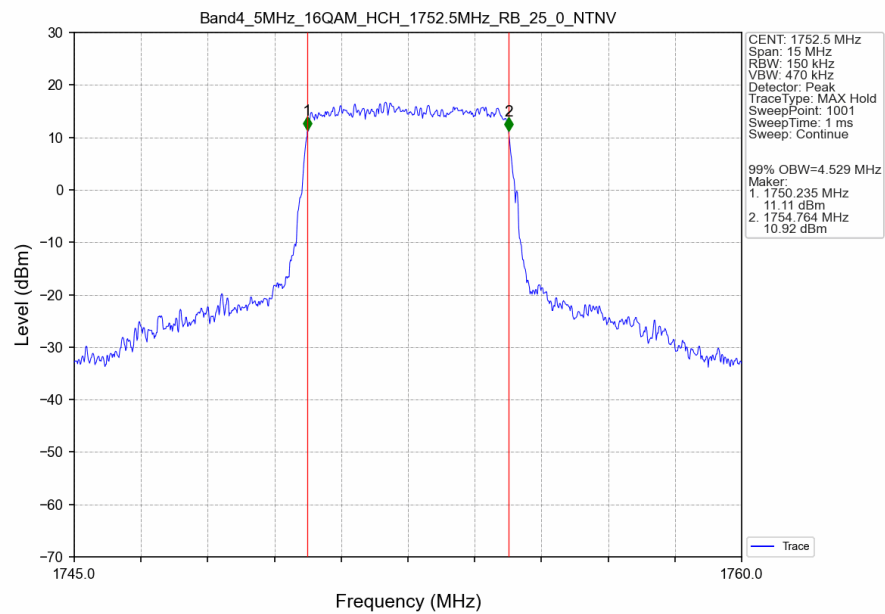
# Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



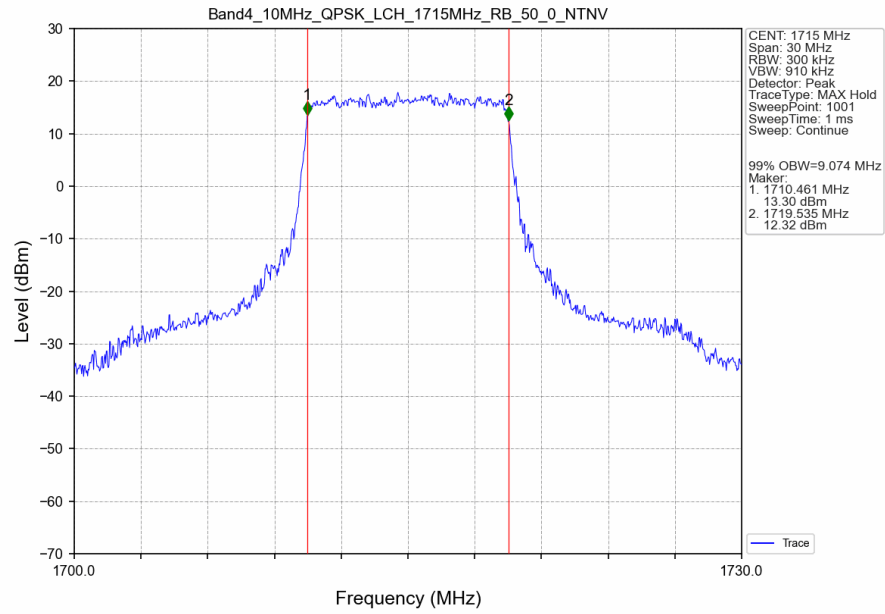
Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



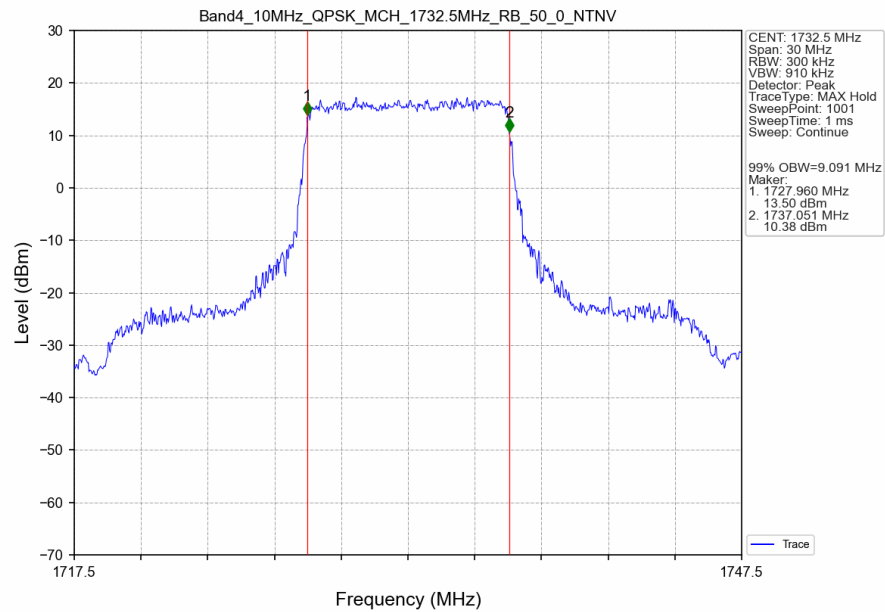
Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



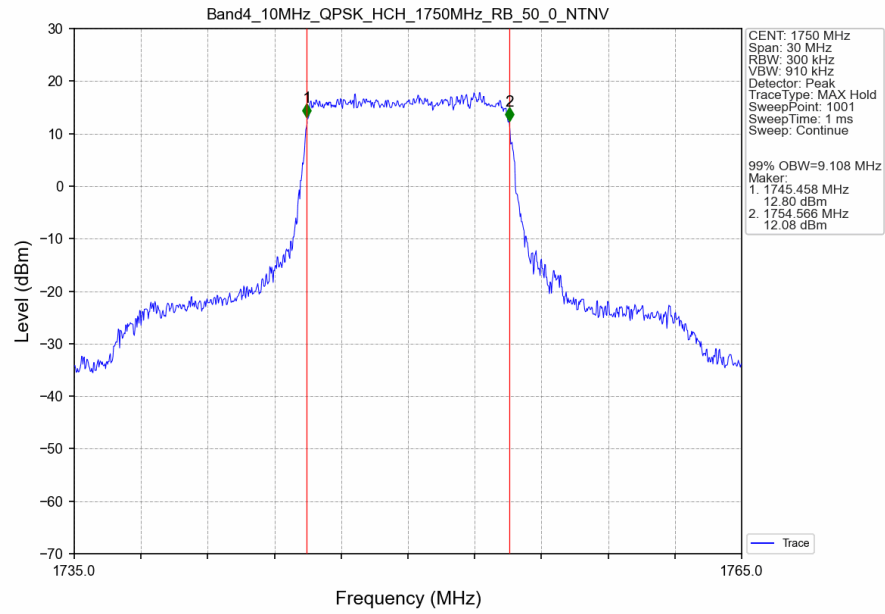
# Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



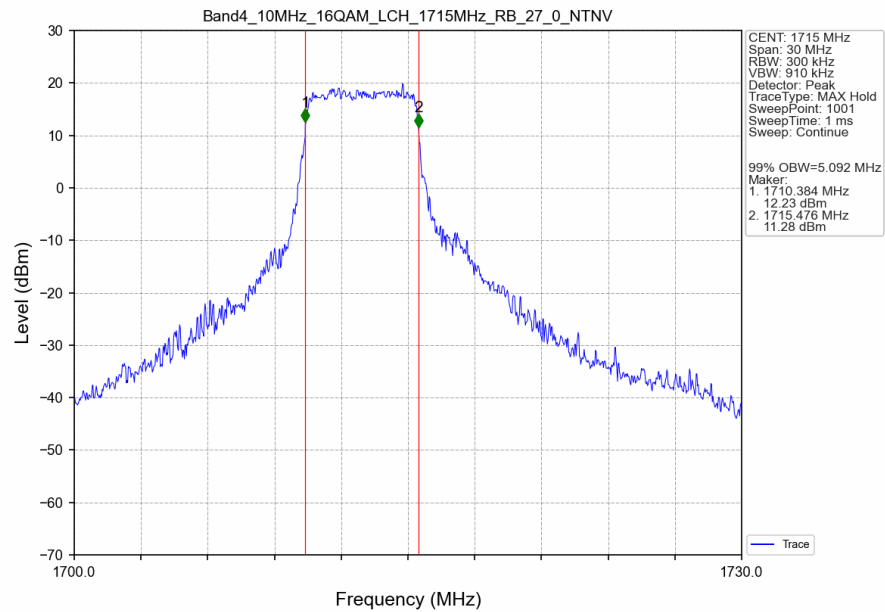
# Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



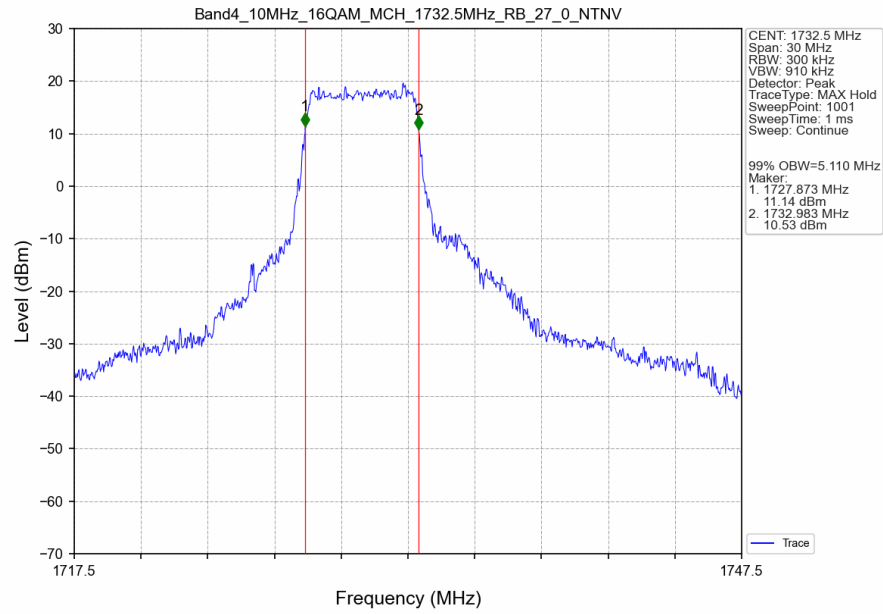
# Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



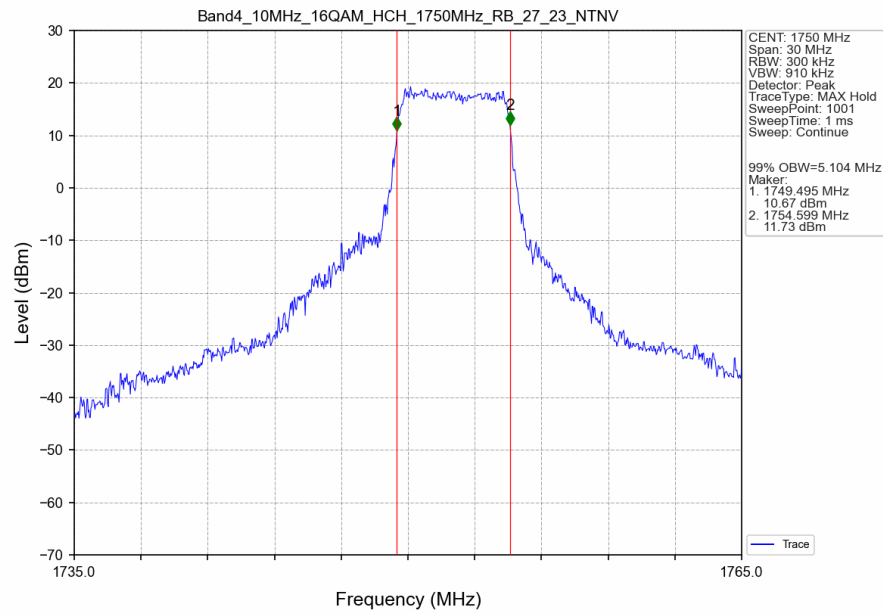
# Band4 10MHz 16QAM LCH 1715MHz RB 27 0 NTNV



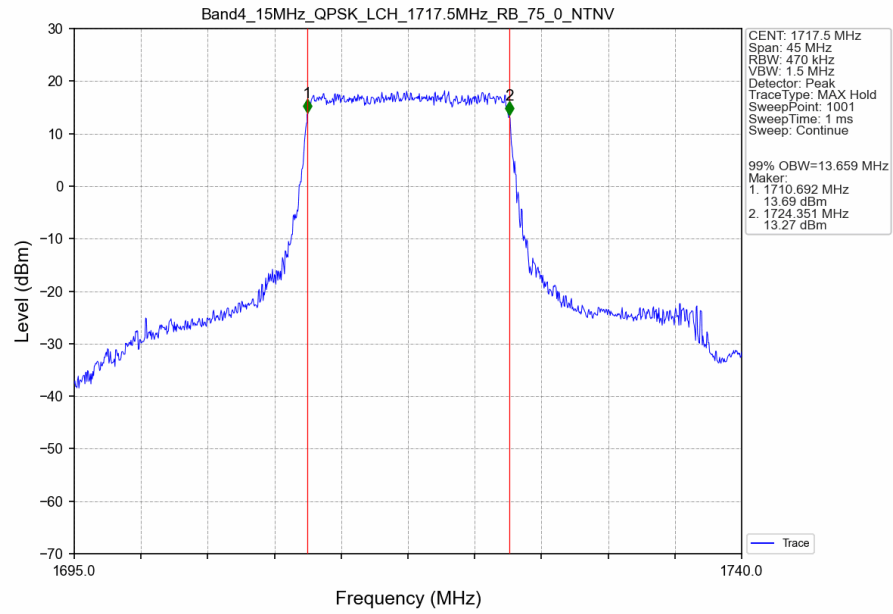
# Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_27\_0\_NTNV



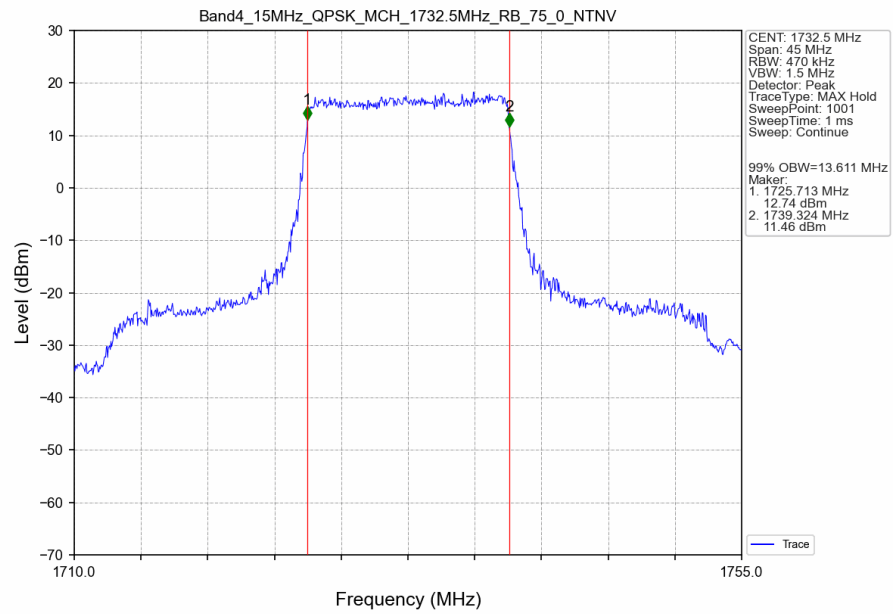
# Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_27\_23\_NTNV



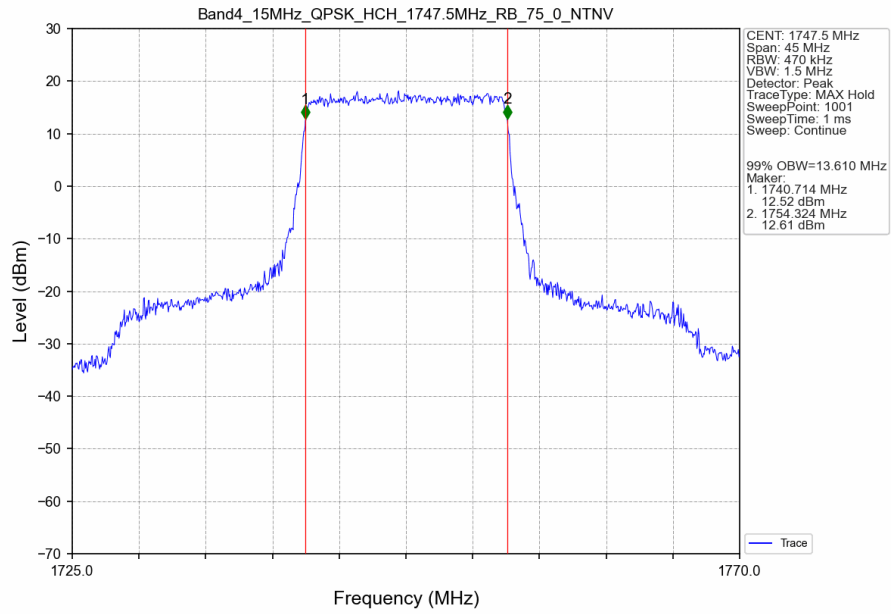
# Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



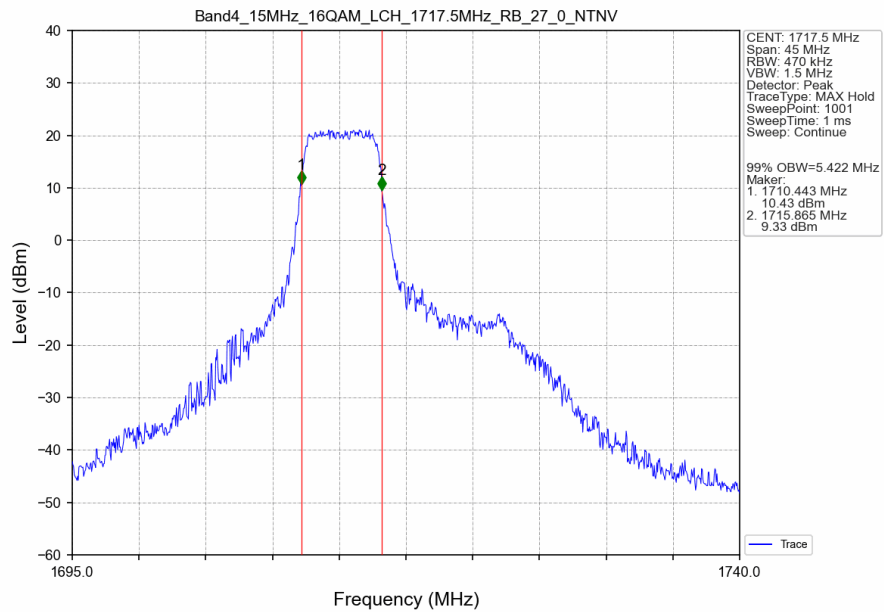
# Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



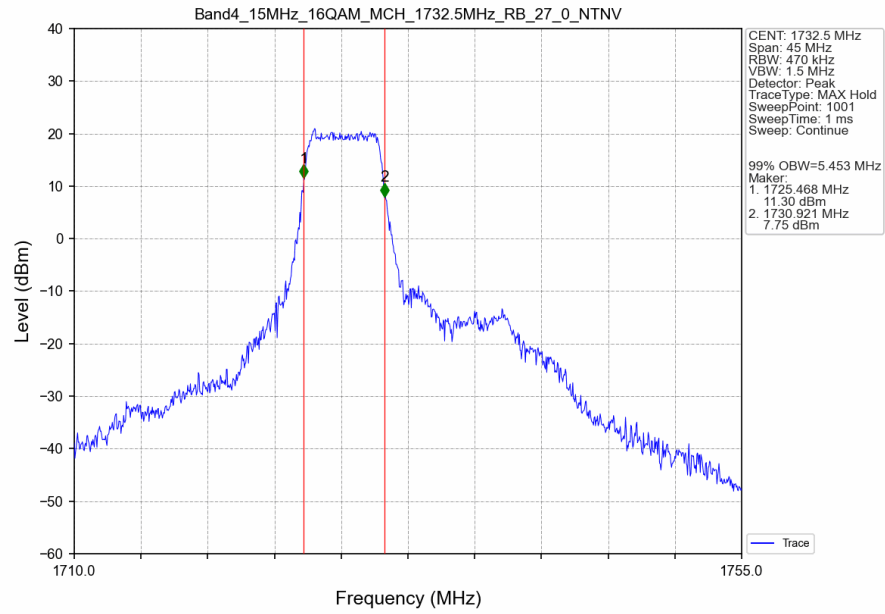
# Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



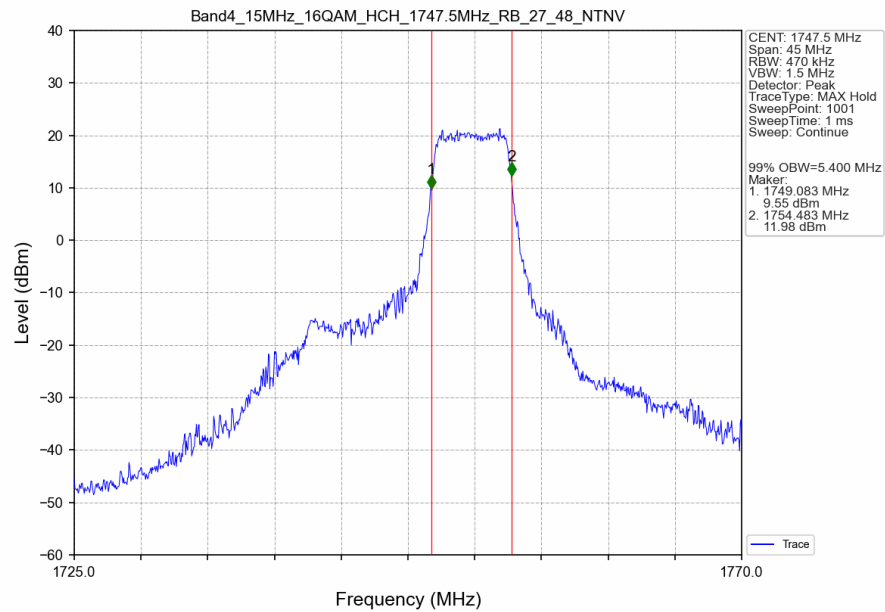
# Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_27\_0\_NTNV



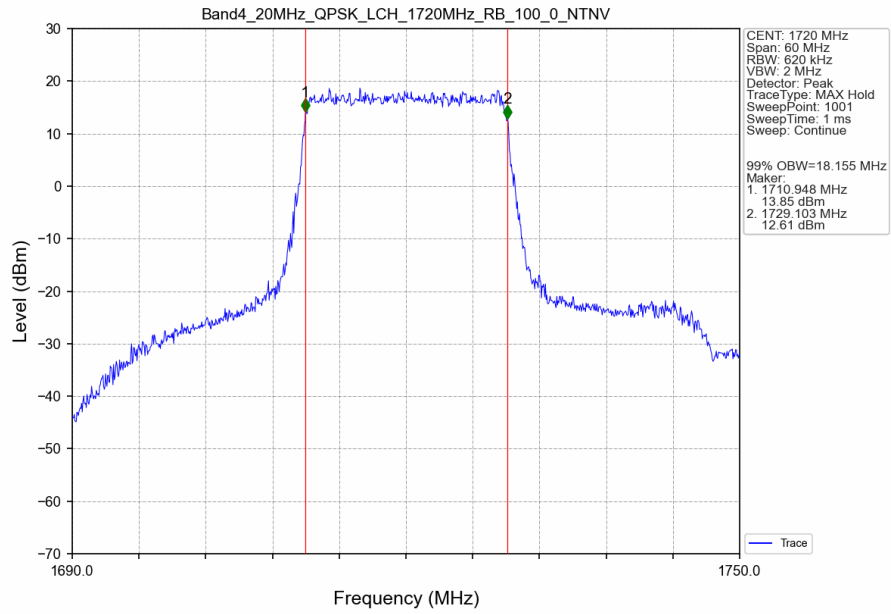
# Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_27\_0\_NTNV



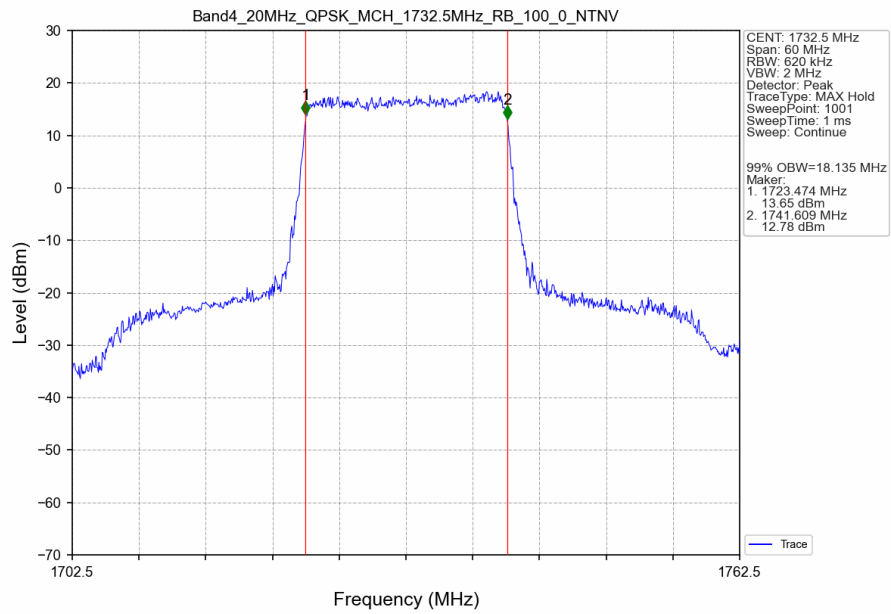
# Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_27\_48\_NTNV



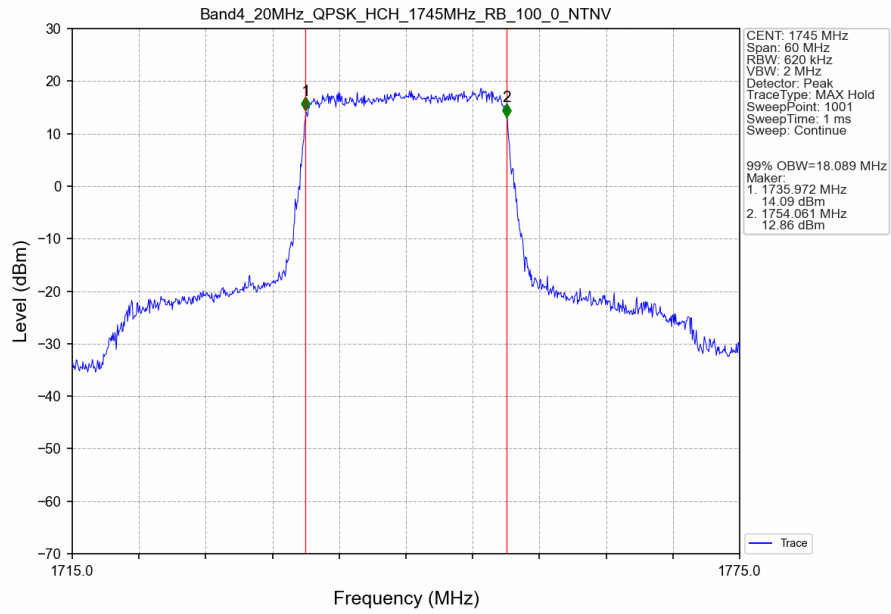
# Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV



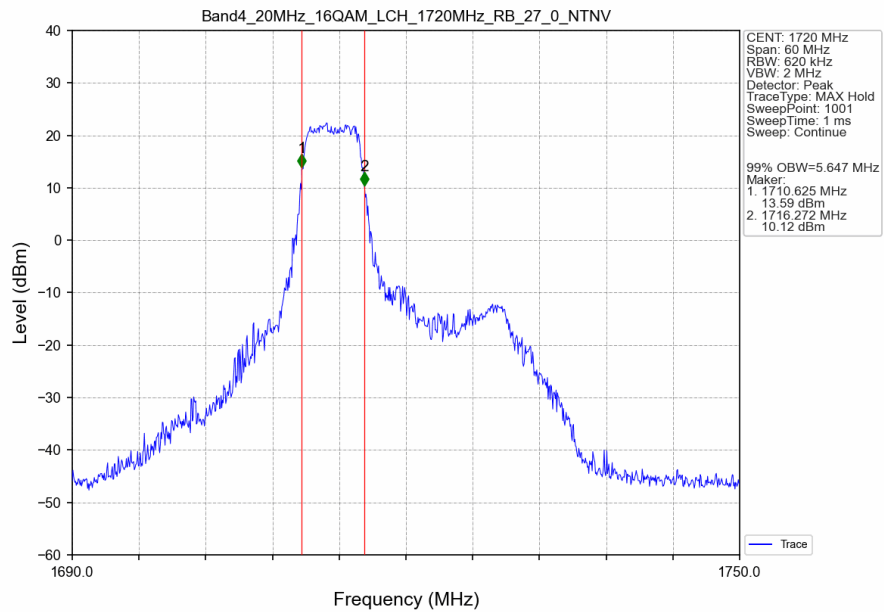
# Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



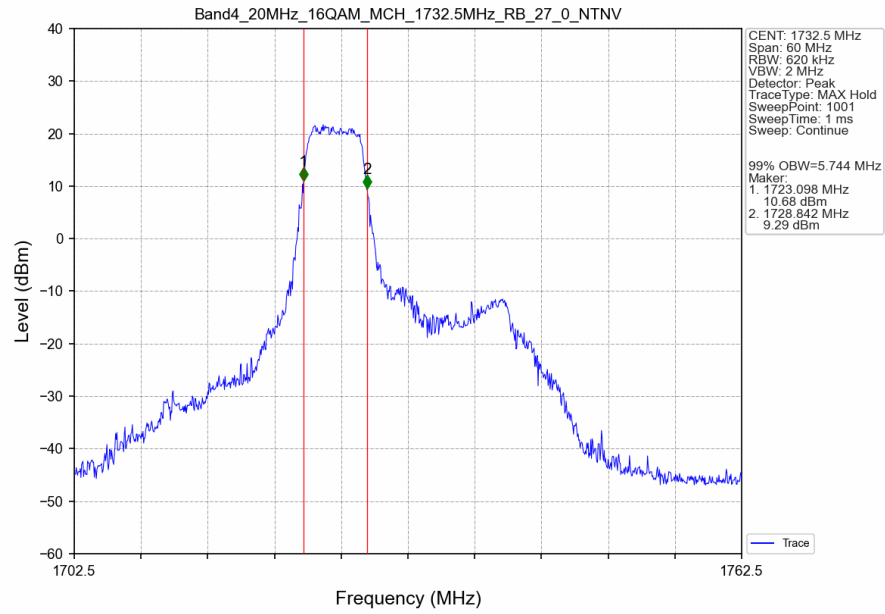
# Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



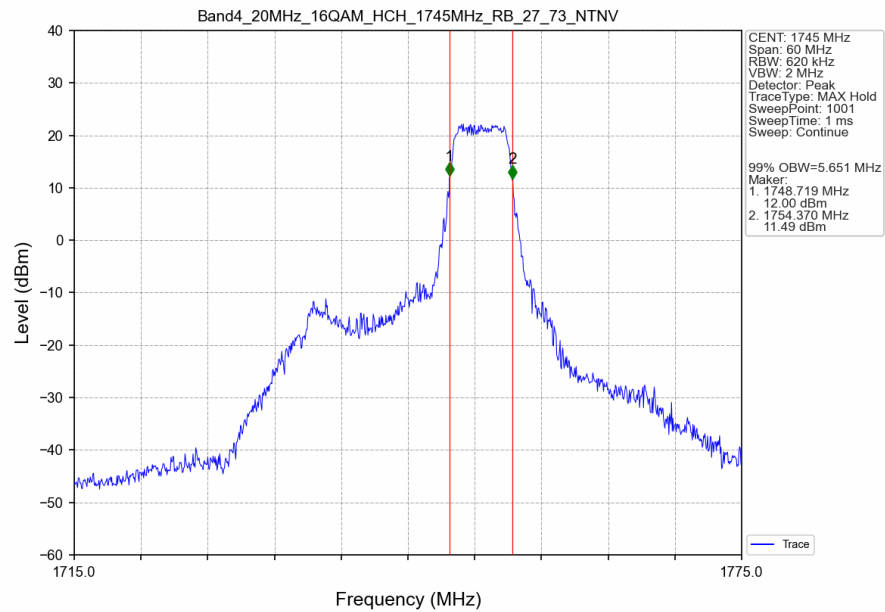
# Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_27\_0\_NTNV



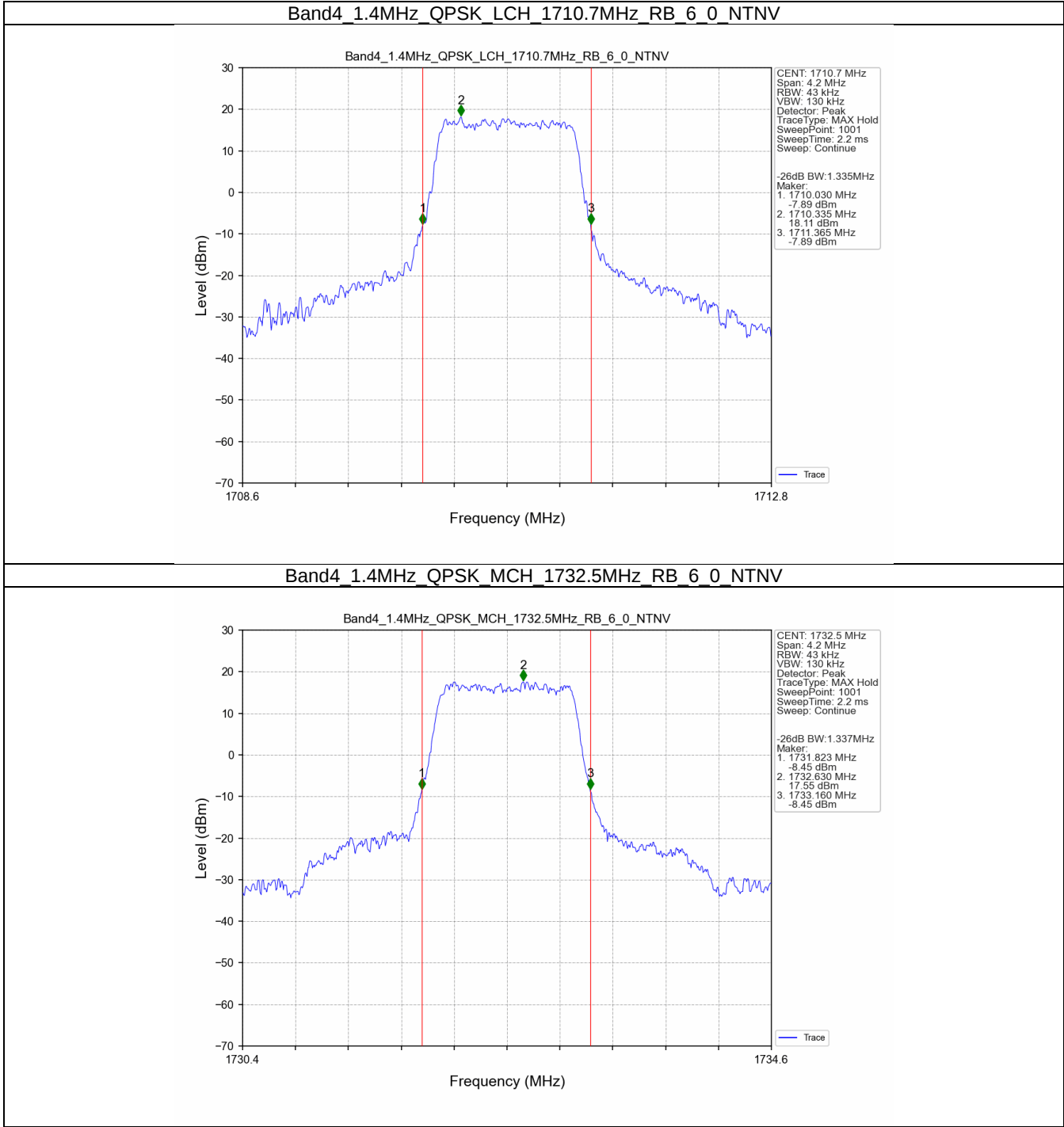
# Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_27\_0\_NTNV



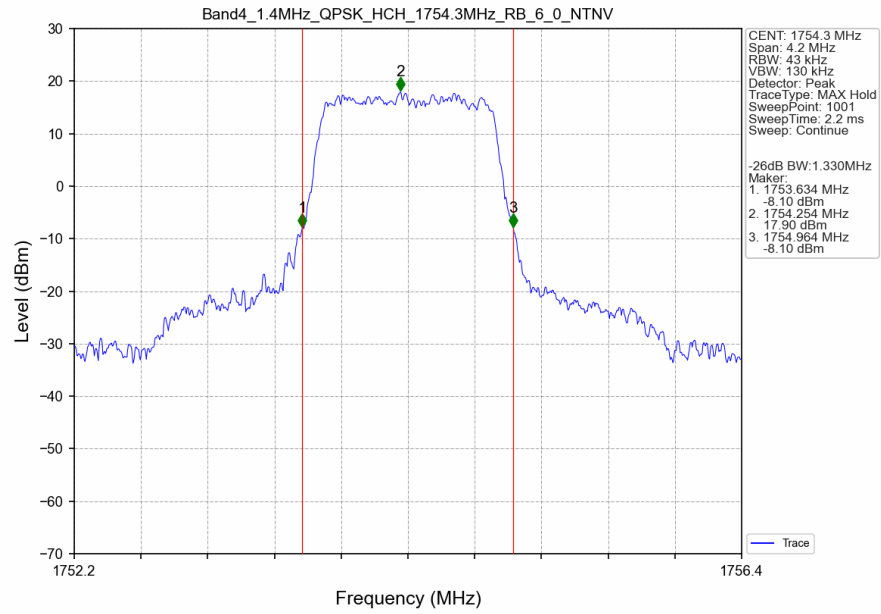
# Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_27\_73\_NTNV



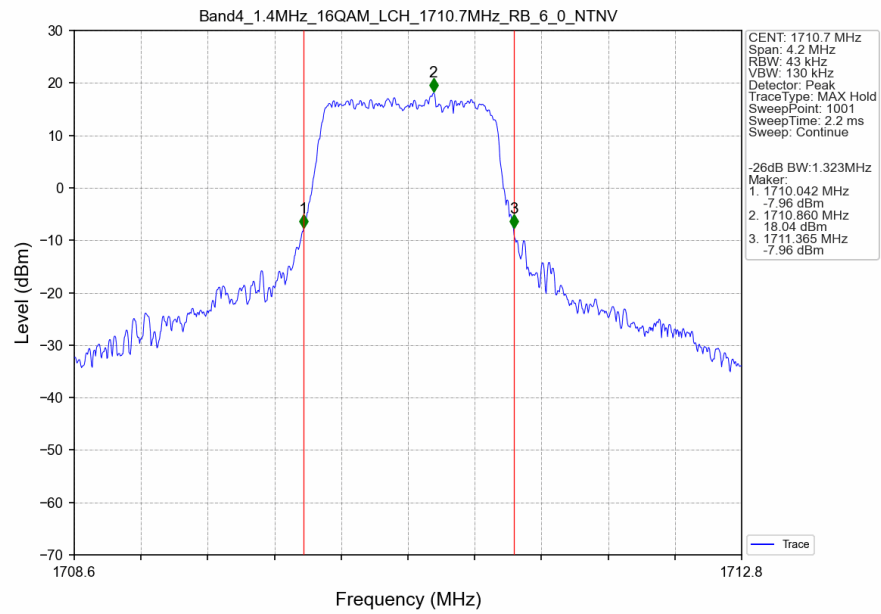
3.2.2 Band4\_XDB



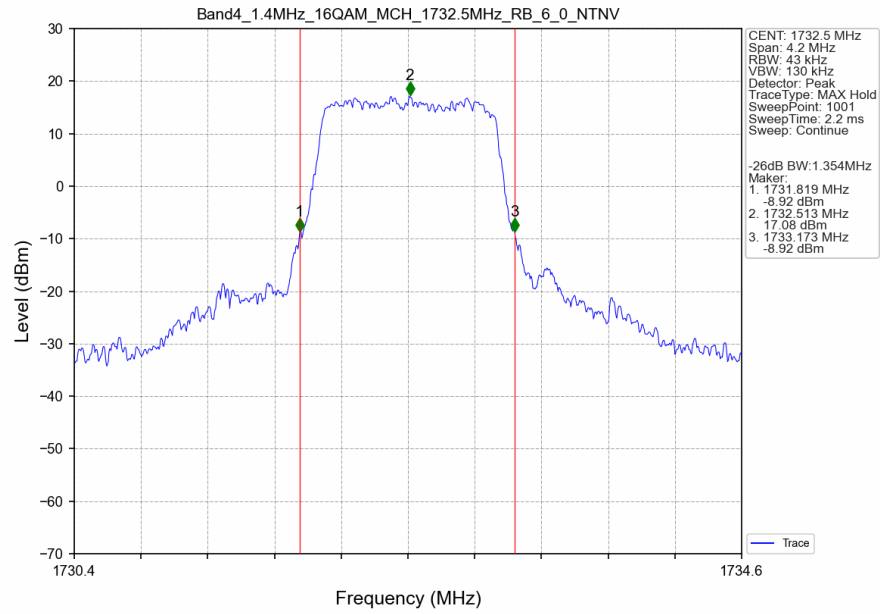
# Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



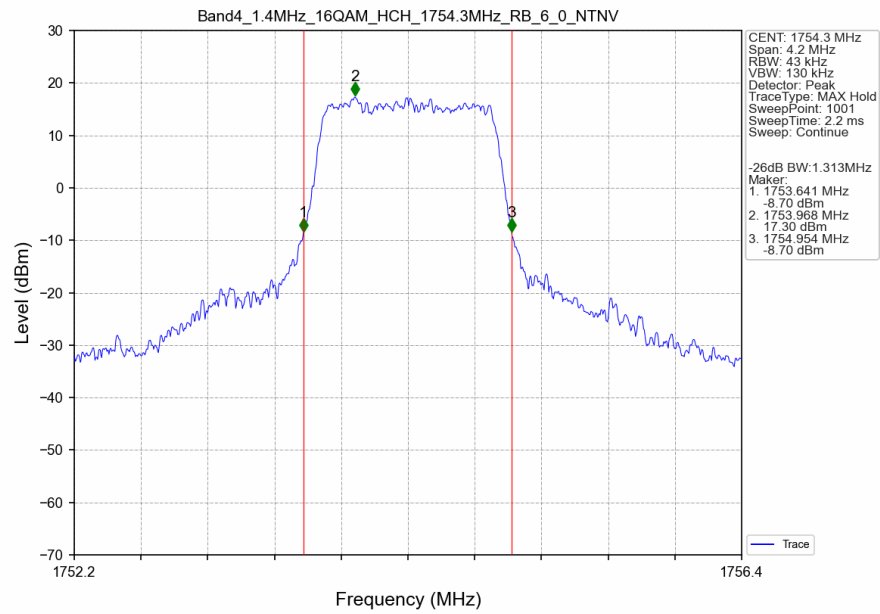
# Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



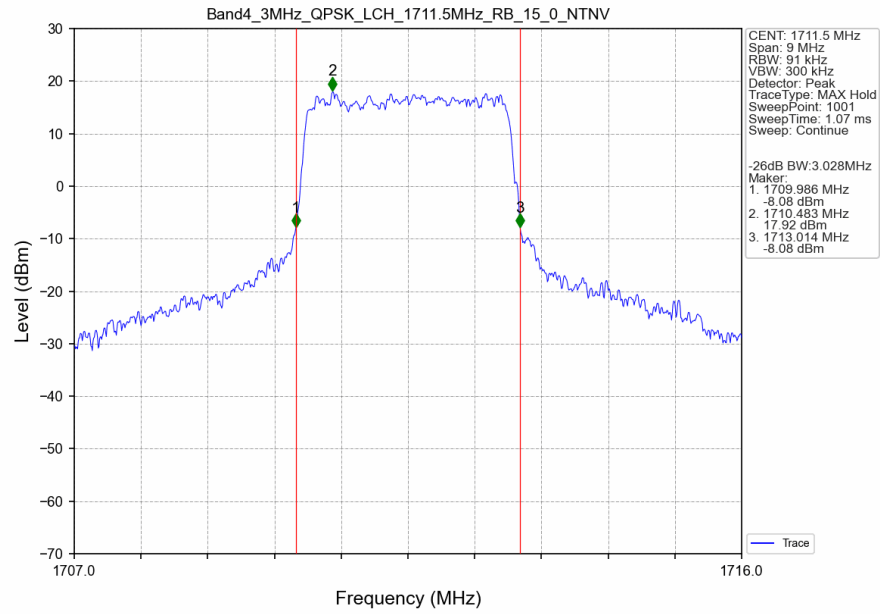
# Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6\_0 NTN



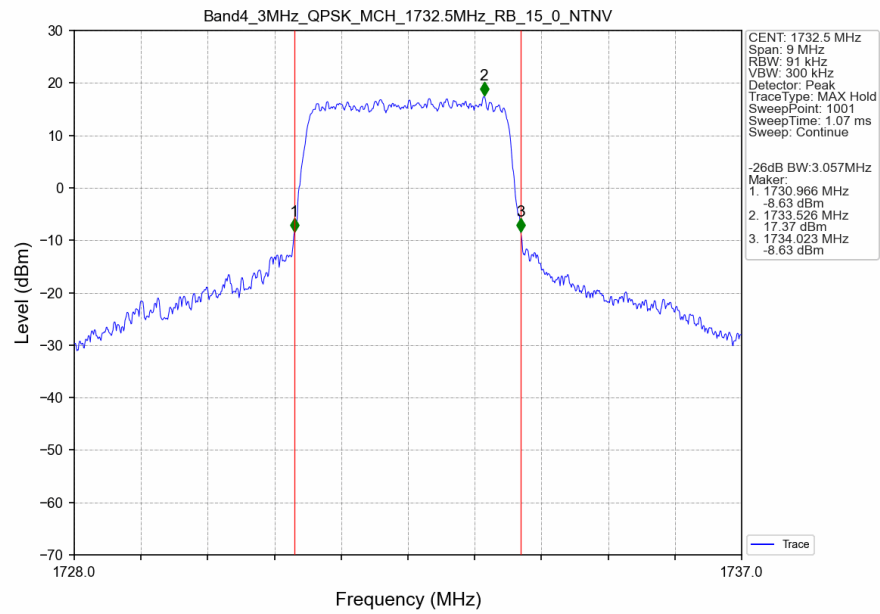
# Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6\_0 NTN



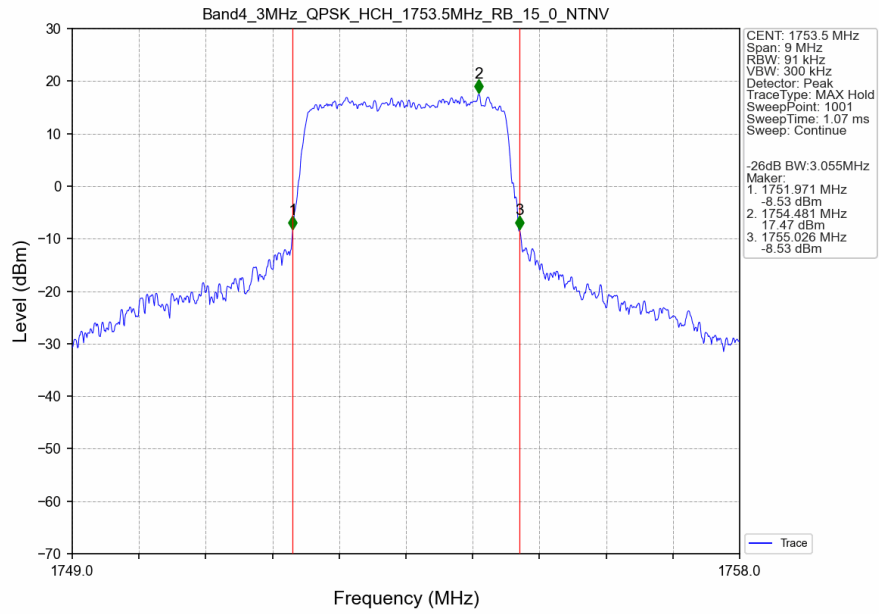
# Band4 3MHz QPSK LCH 1711.5MHz RB 15\_0 NTN



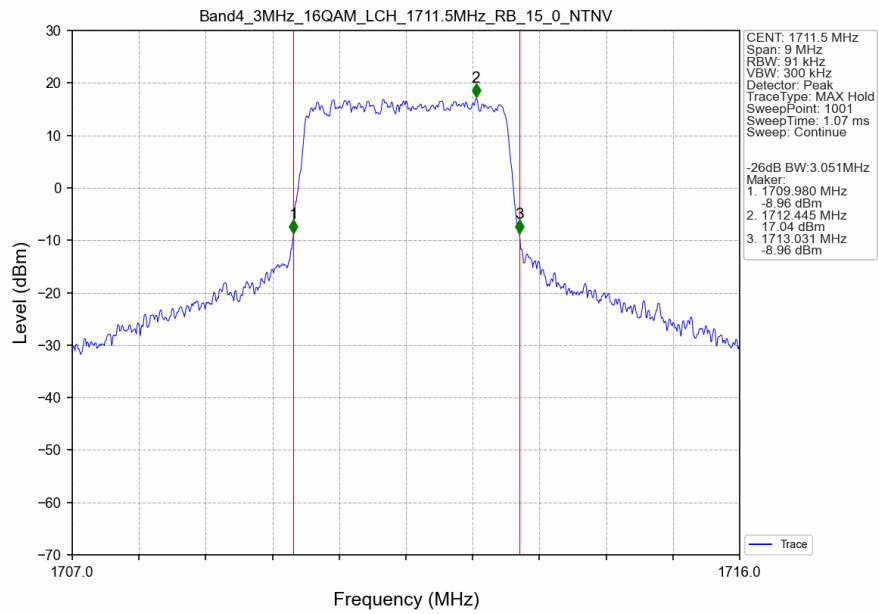
# Band4 3MHz QPSK MCH 1732.5MHz RB 15\_0 NTN



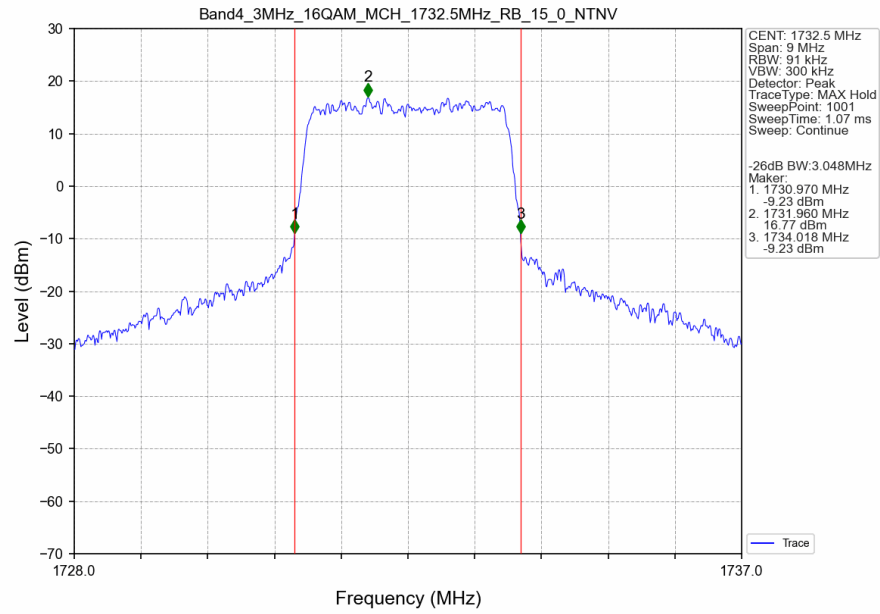
# Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



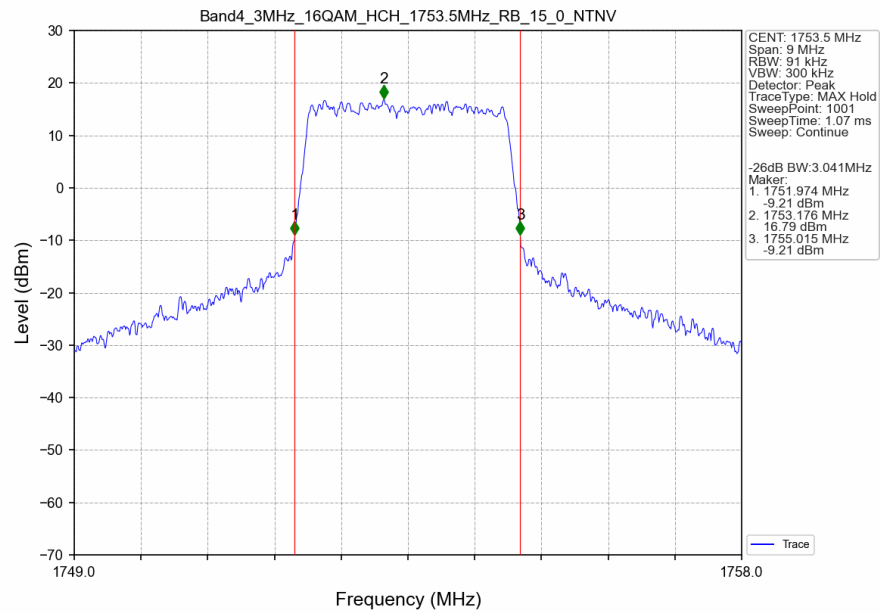
# Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



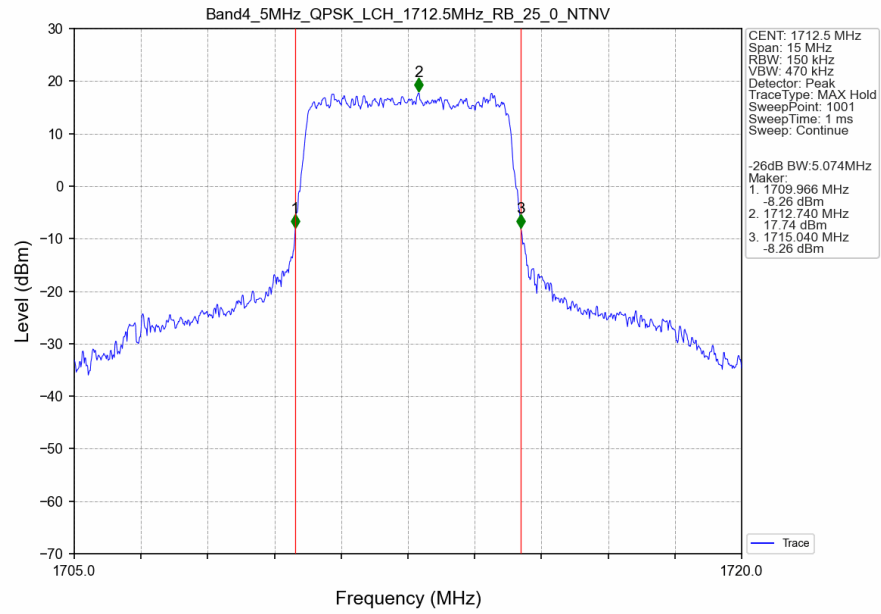
# Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



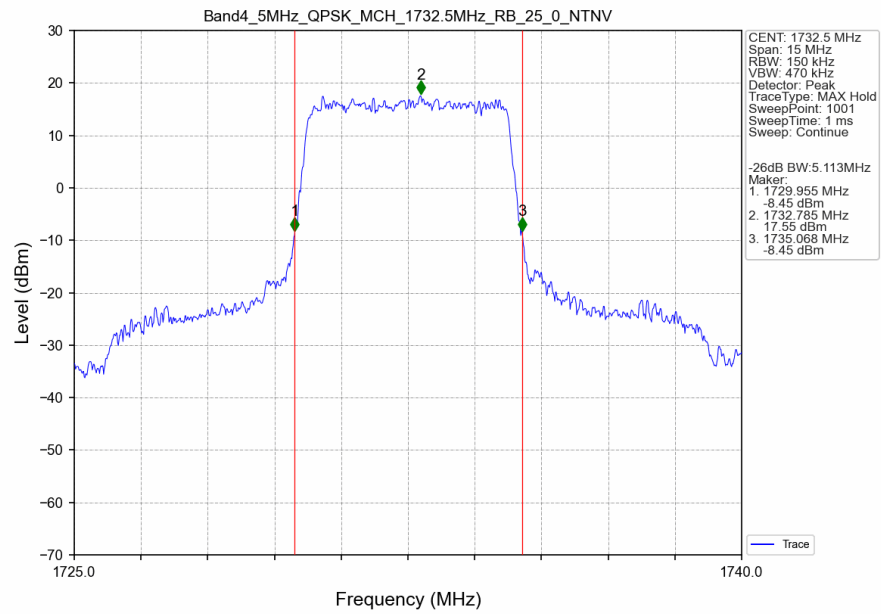
# Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



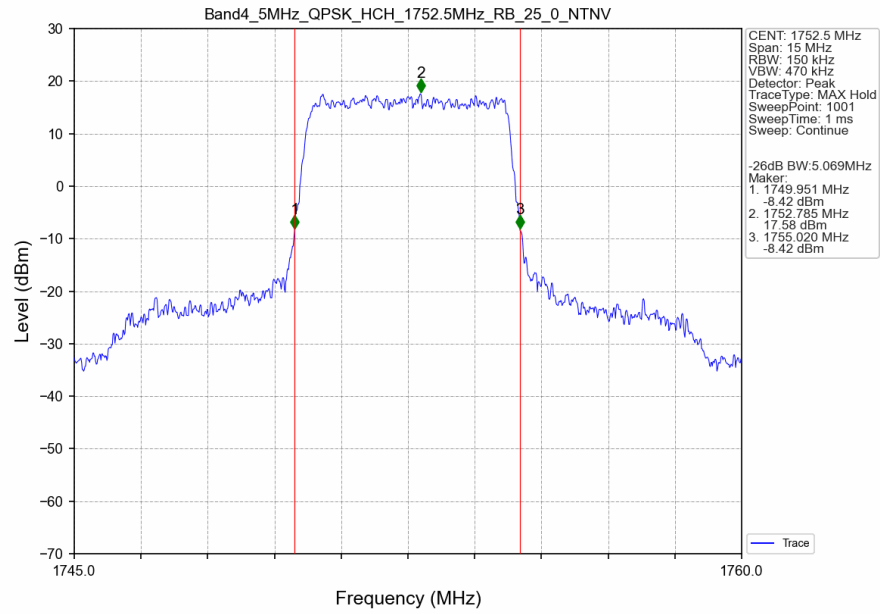
### Band4 5MHz QPSK LCH 1712.5MHz RB 25\_0 NTN



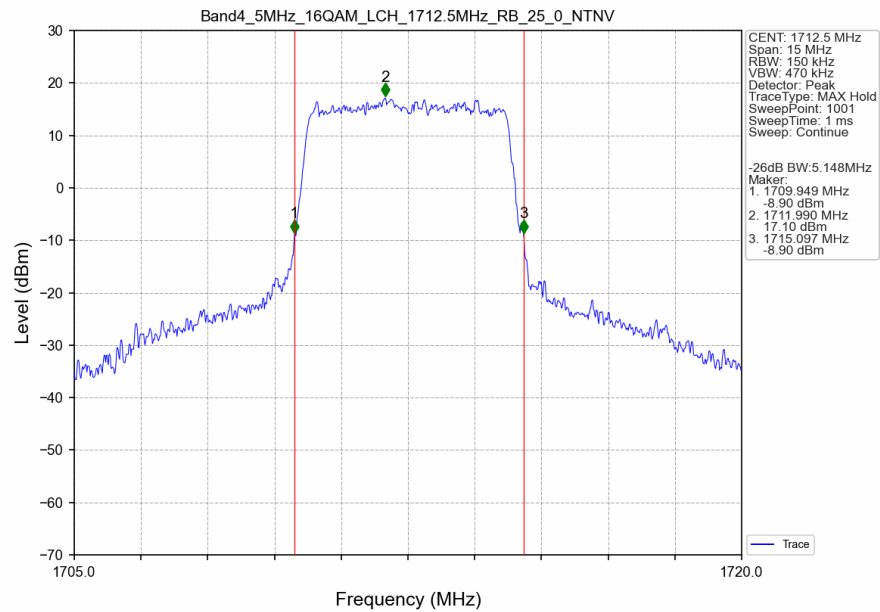
### Band4 5MHz QPSK MCH 1732.5MHz RB 25\_0 NTN



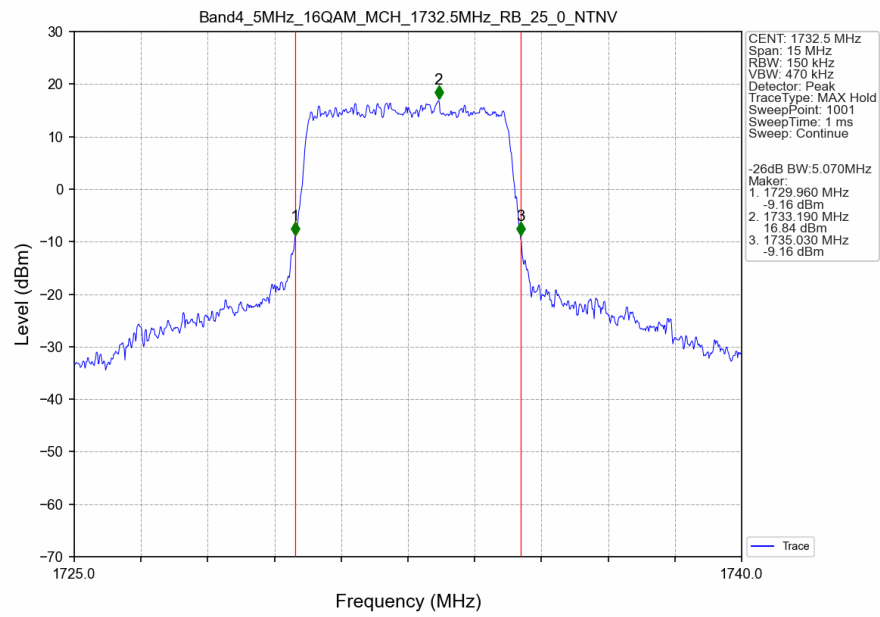
# Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



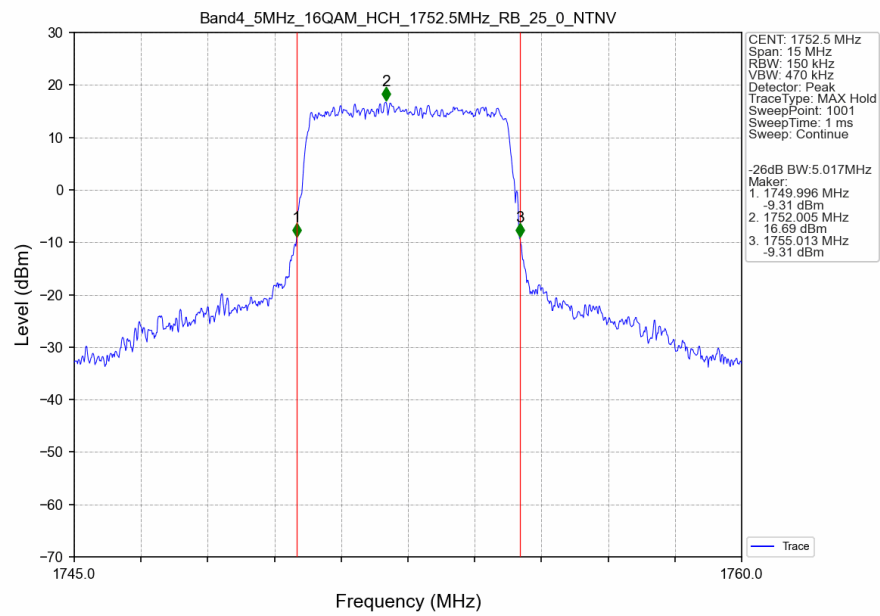
# Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



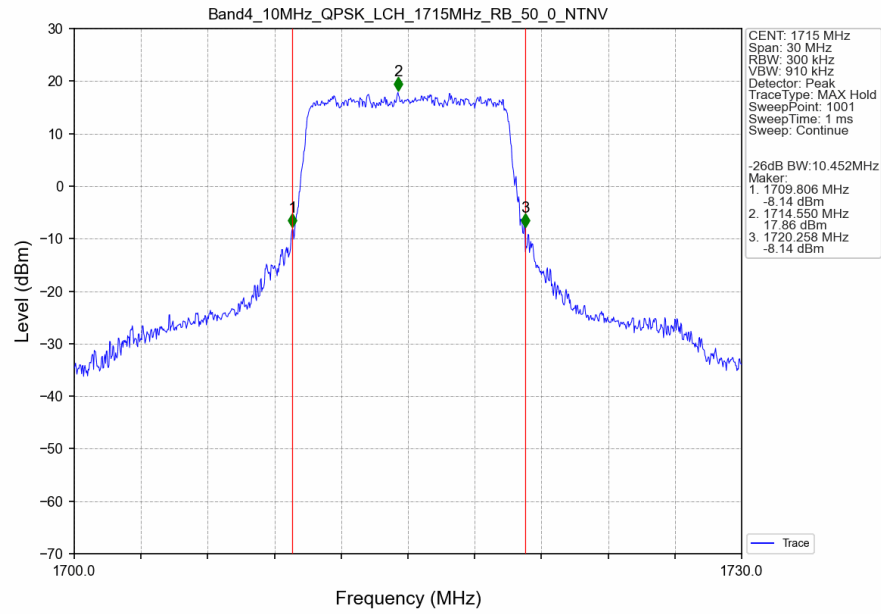
# Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



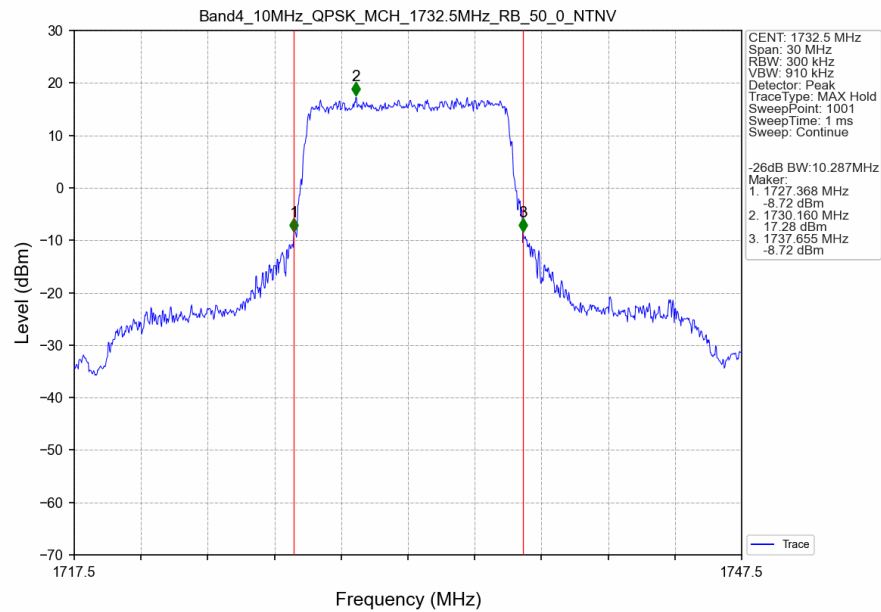
# Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



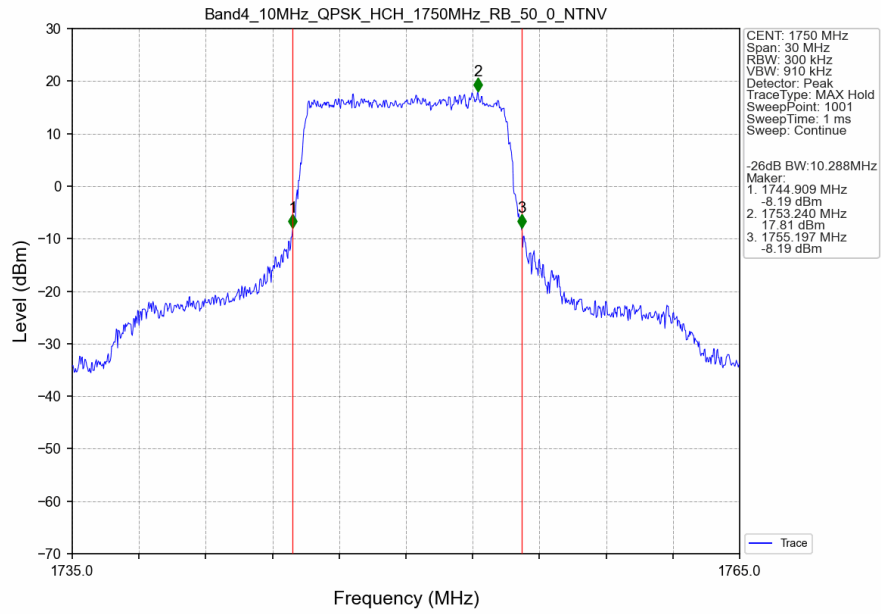
# Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



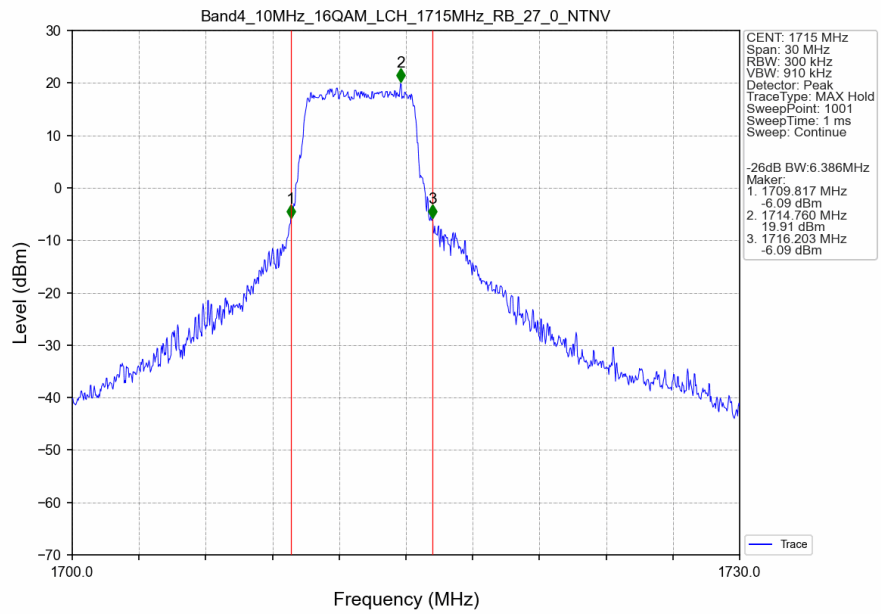
# Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



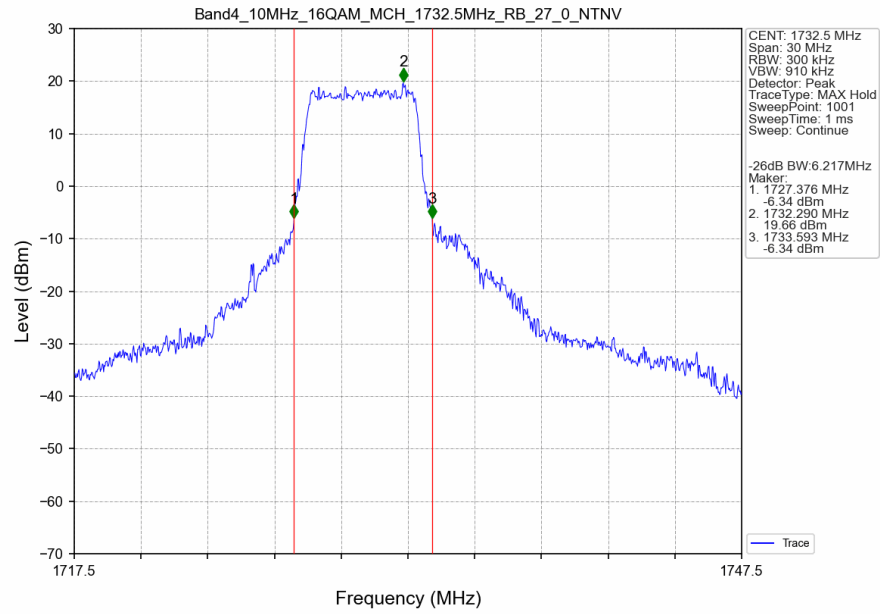
# Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



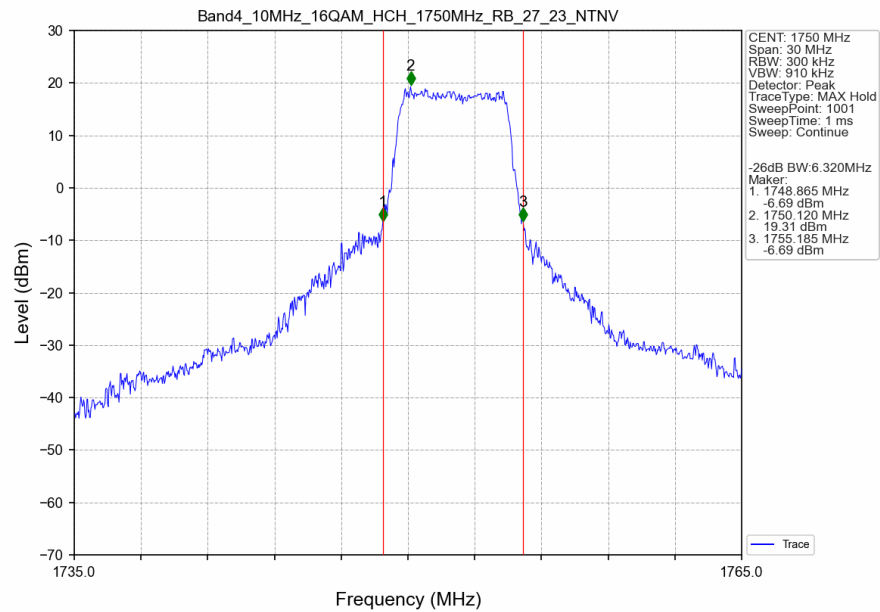
# Band4 10MHz 16QAM LCH 1715MHz RB 27 0 NTN



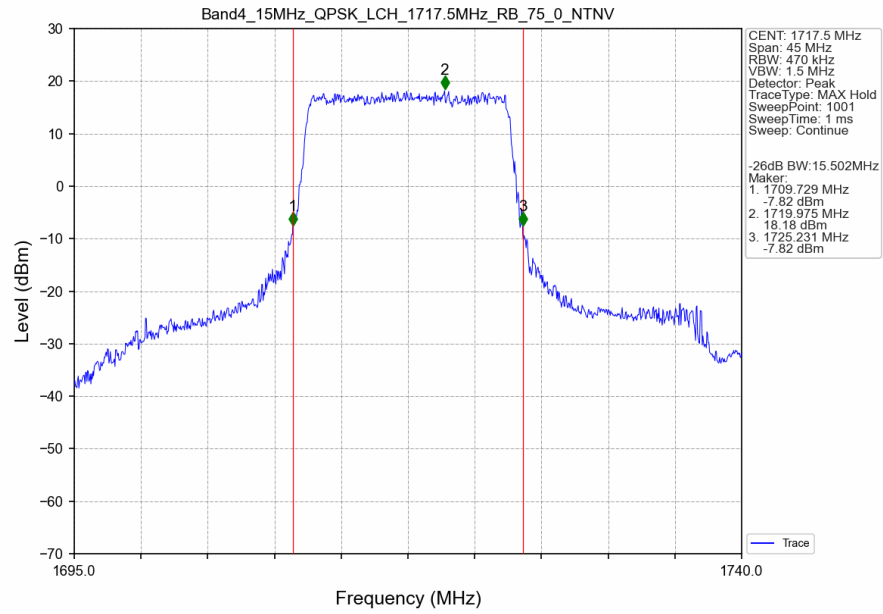
# Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_27\_0\_NTNV



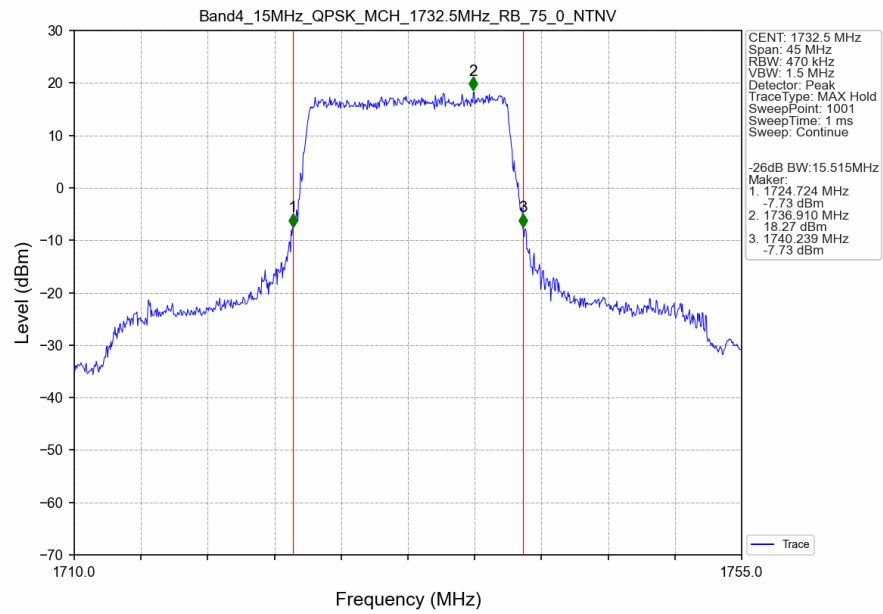
# Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_27\_23\_NTNV



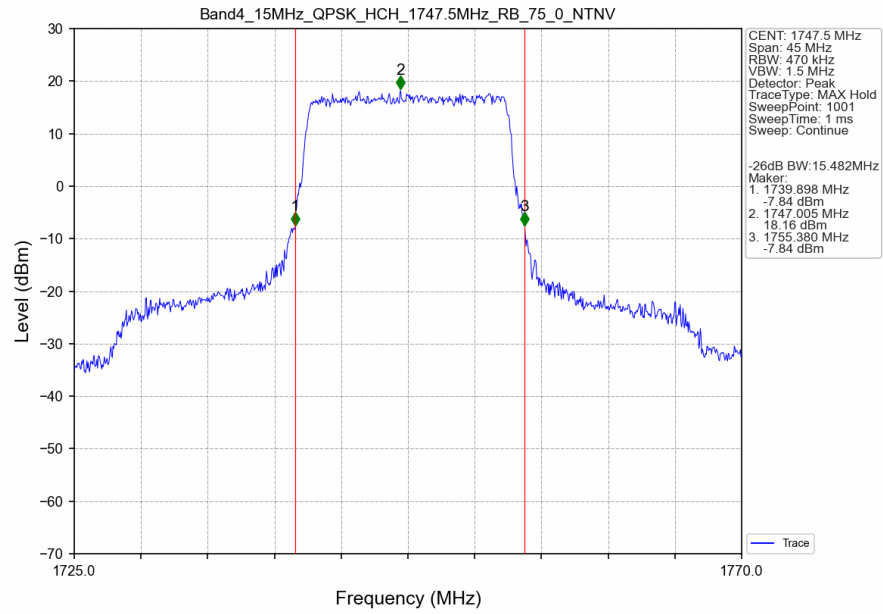
# Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



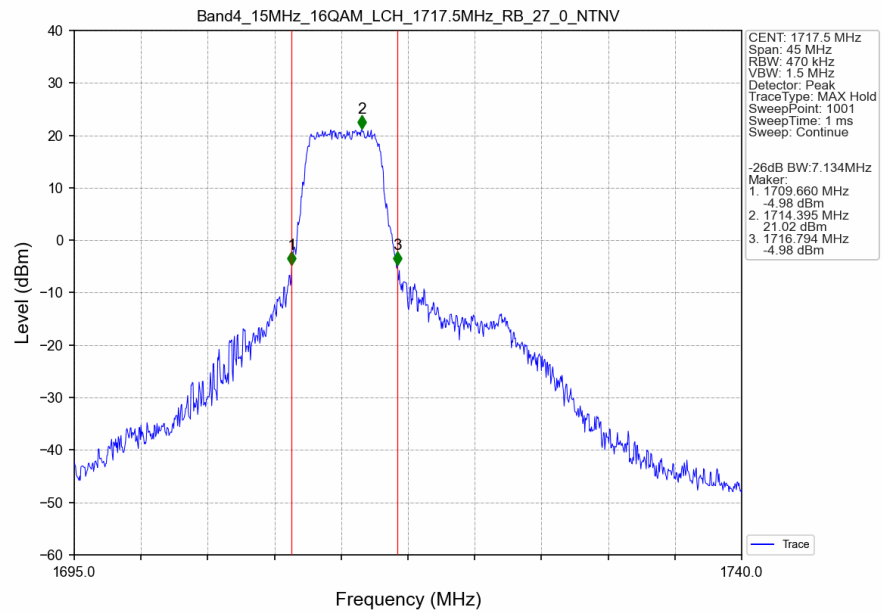
# Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



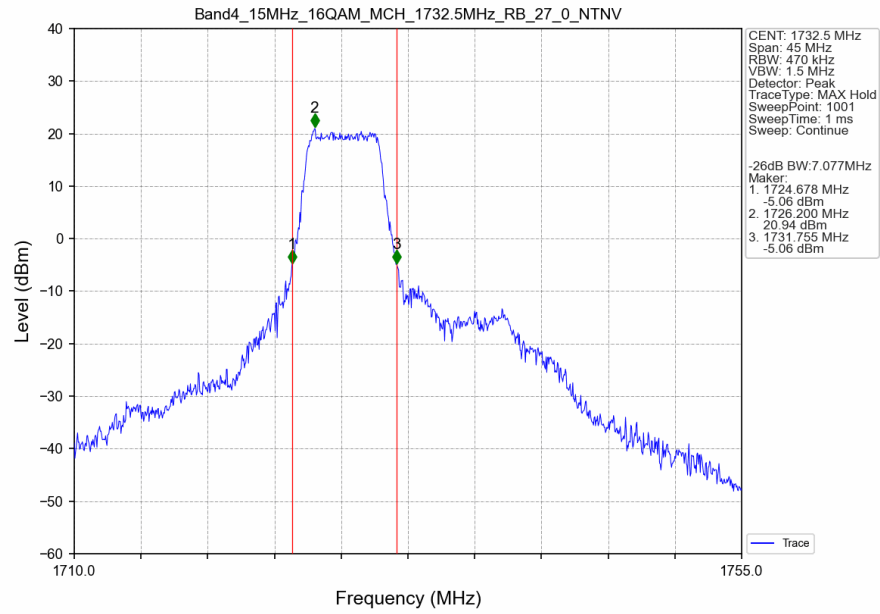
# Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



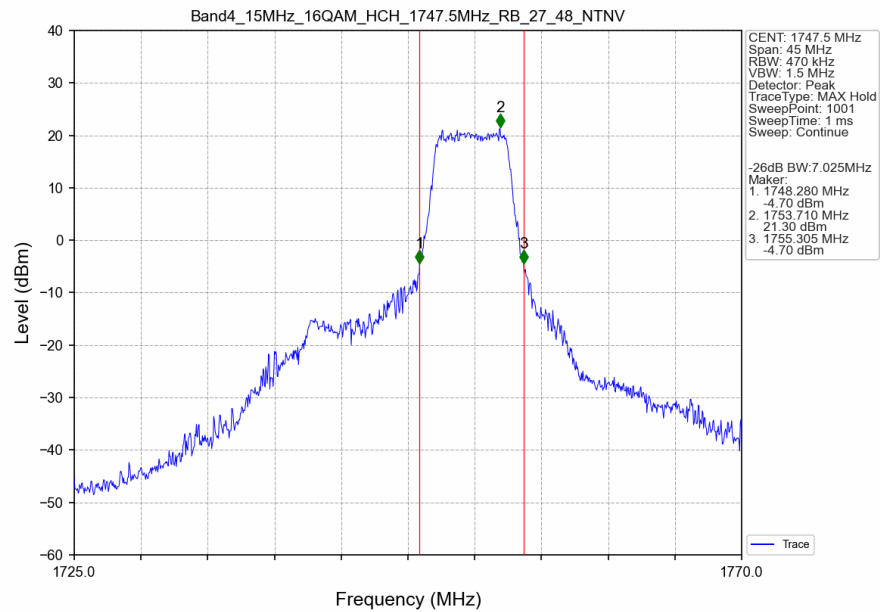
# Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_27\_0\_NTNV



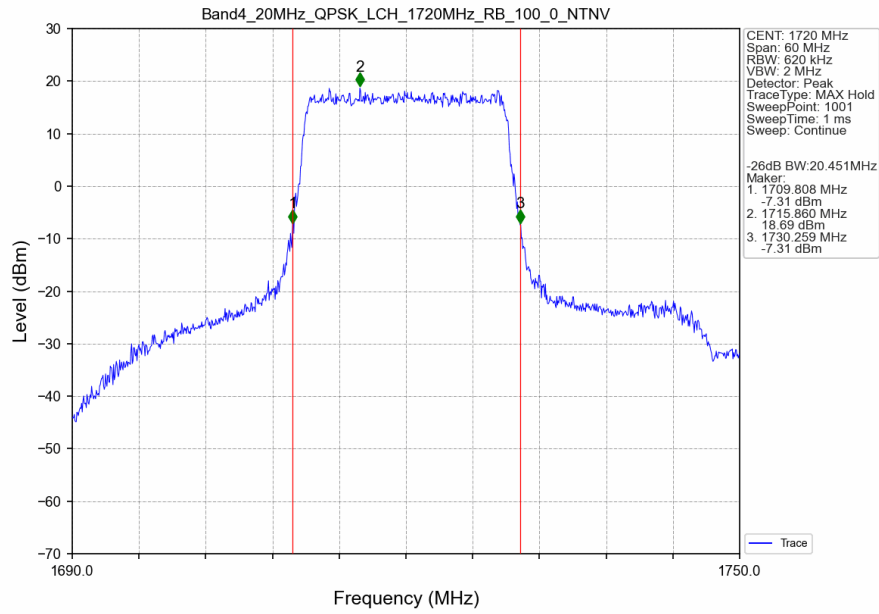
# Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_27\_0\_NTNV



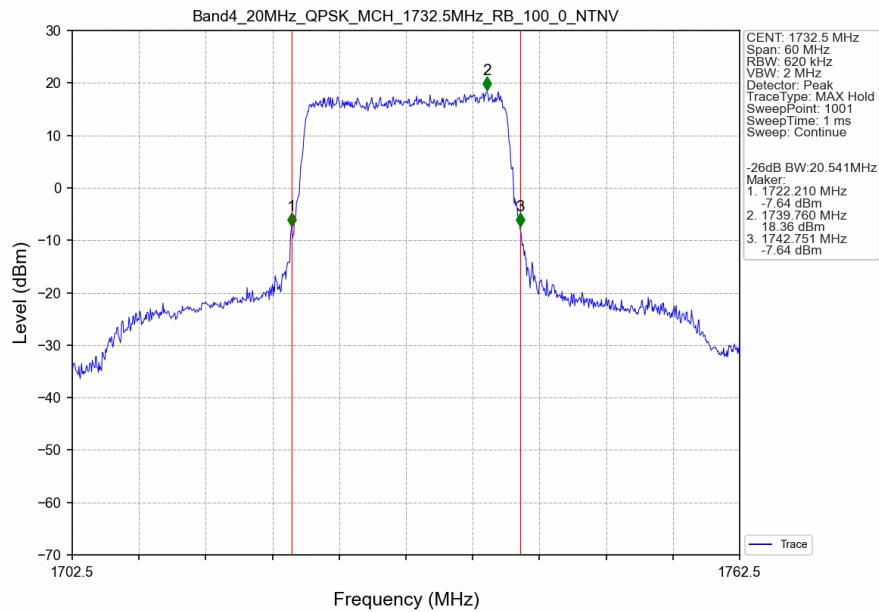
# Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_27\_48\_NTNV



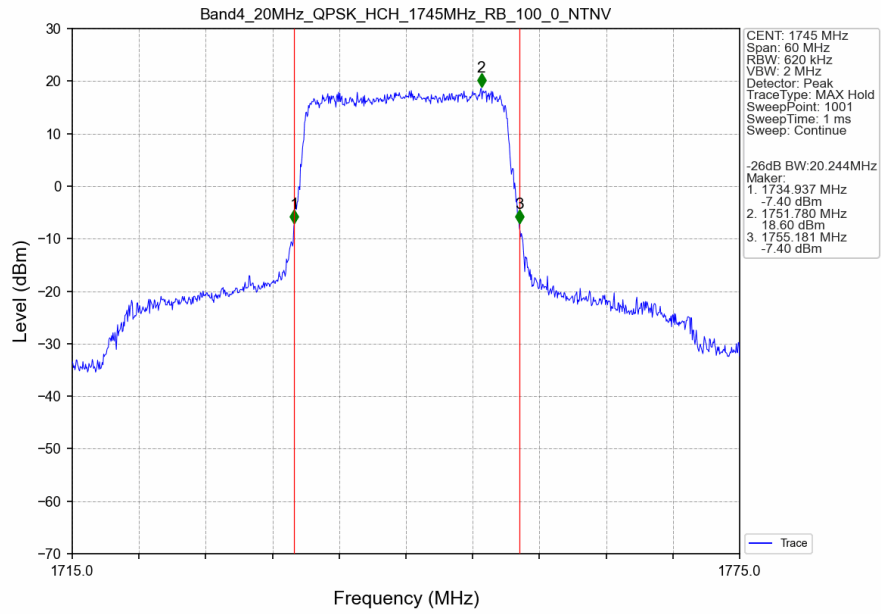
# Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV



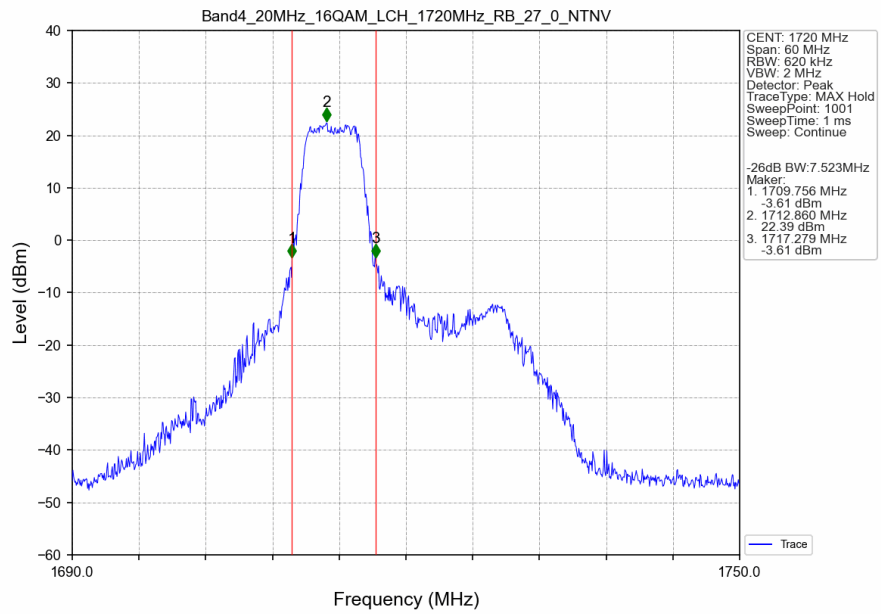
# Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



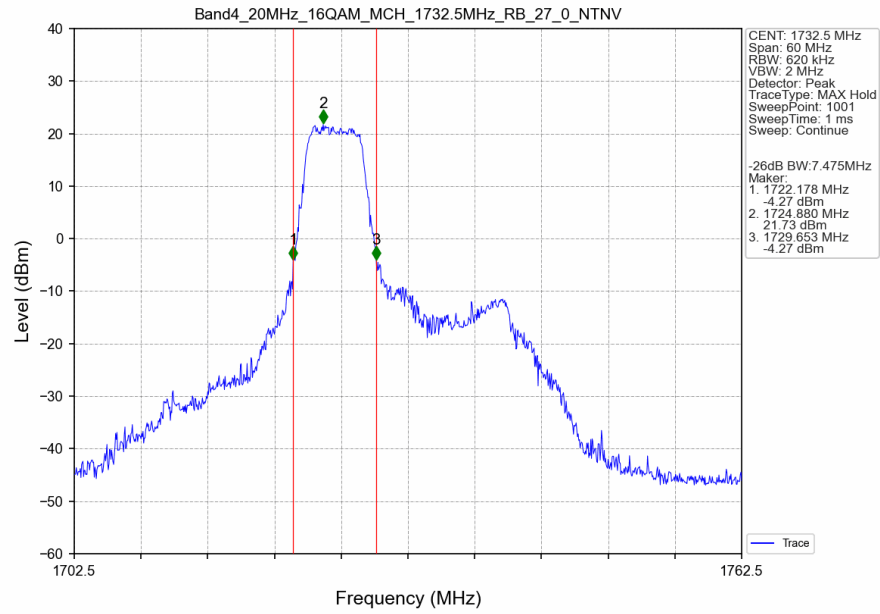
# Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



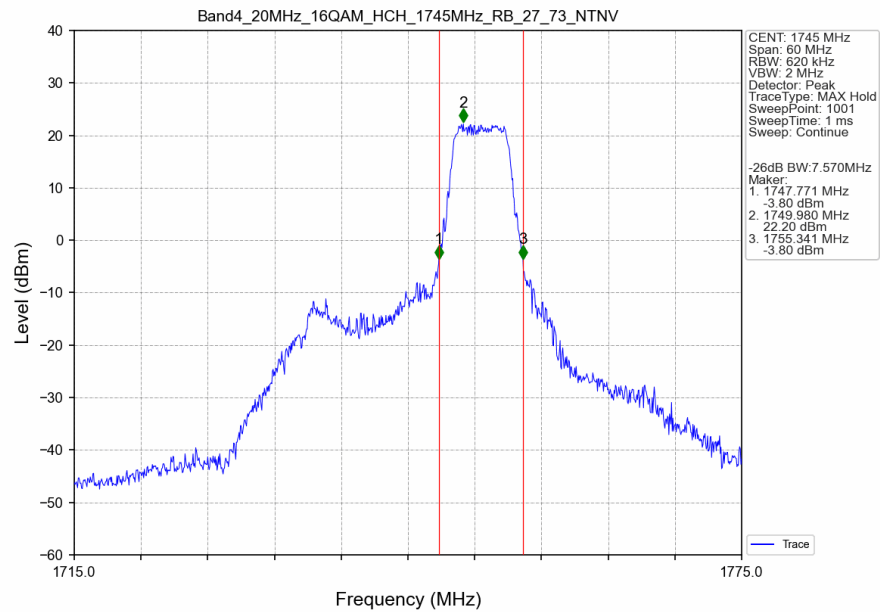
# Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_27\_0\_NTNV



# Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_27\_0\_NTNV



# Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_27\_73\_NTNV



## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 B4\_1.4MHz

| Band: 4 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                         |       |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                               | 1710.7          | 6             | 0      | 5.91                    | <=13  | Pass    |
|                                    | 1732.5          | 6             | 0      | 6.02                    | <=13  | Pass    |
|                                    | 1754.3          | 6             | 0      | 5.65                    | <=13  | Pass    |
| 16QAM                              | 1710.7          | 6             | 0      | 6.59                    | <=13  | Pass    |
|                                    | 1732.5          | 6             | 0      | 6.68                    | <=13  | Pass    |
|                                    | 1754.3          | 6             | 0      | 6.34                    | <=13  | Pass    |

#### 4.1.2 B4\_3MHz

| Band: 4 / Bandwidth: 3MHz / NTNV |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 1711.5          | 15            | 0      | 5.84                    | <=13  | Pass    |
|                                  | 1732.5          | 15            | 0      | 5.92                    | <=13  | Pass    |
|                                  | 1753.5          | 15            | 0      | 5.62                    | <=13  | Pass    |
| 16QAM                            | 1711.5          | 15            | 0      | 6.63                    | <=13  | Pass    |
|                                  | 1732.5          | 15            | 0      | 6.63                    | <=13  | Pass    |
|                                  | 1753.5          | 15            | 0      | 6.36                    | <=13  | Pass    |

#### 4.1.3 B4\_5MHz

| Band: 4 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 1712.5          | 25            | 0      | 5.71                    | <=13  | Pass    |
|                                  | 1732.5          | 25            | 0      | 5.82                    | <=13  | Pass    |
|                                  | 1752.5          | 25            | 0      | 5.61                    | <=13  | Pass    |
| 16QAM                            | 1712.5          | 25            | 0      | 6.44                    | <=13  | Pass    |
|                                  | 1732.5          | 25            | 0      | 6.40                    | <=13  | Pass    |
|                                  | 1752.5          | 25            | 0      | 6.21                    | <=13  | Pass    |

#### 4.1.4 B4\_10MHz

| Band: 4 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 1715            | 50            | 0      | 5.90                    | <=13  | Pass    |
|                                   | 1732.5          | 50            | 0      | 5.82                    | <=13  | Pass    |
|                                   | 1750            | 50            | 0      | 5.59                    | <=13  | Pass    |

|       |        |    |    |      |      |      |
|-------|--------|----|----|------|------|------|
| 16QAM | 1715   | 27 | 0  | 6.49 | <=13 | Pass |
|       | 1732.5 | 27 | 0  | 6.48 | <=13 | Pass |
|       | 1750   | 27 | 23 | 6.16 | <=13 | Pass |

#### 4.1.5 B4\_15MHz

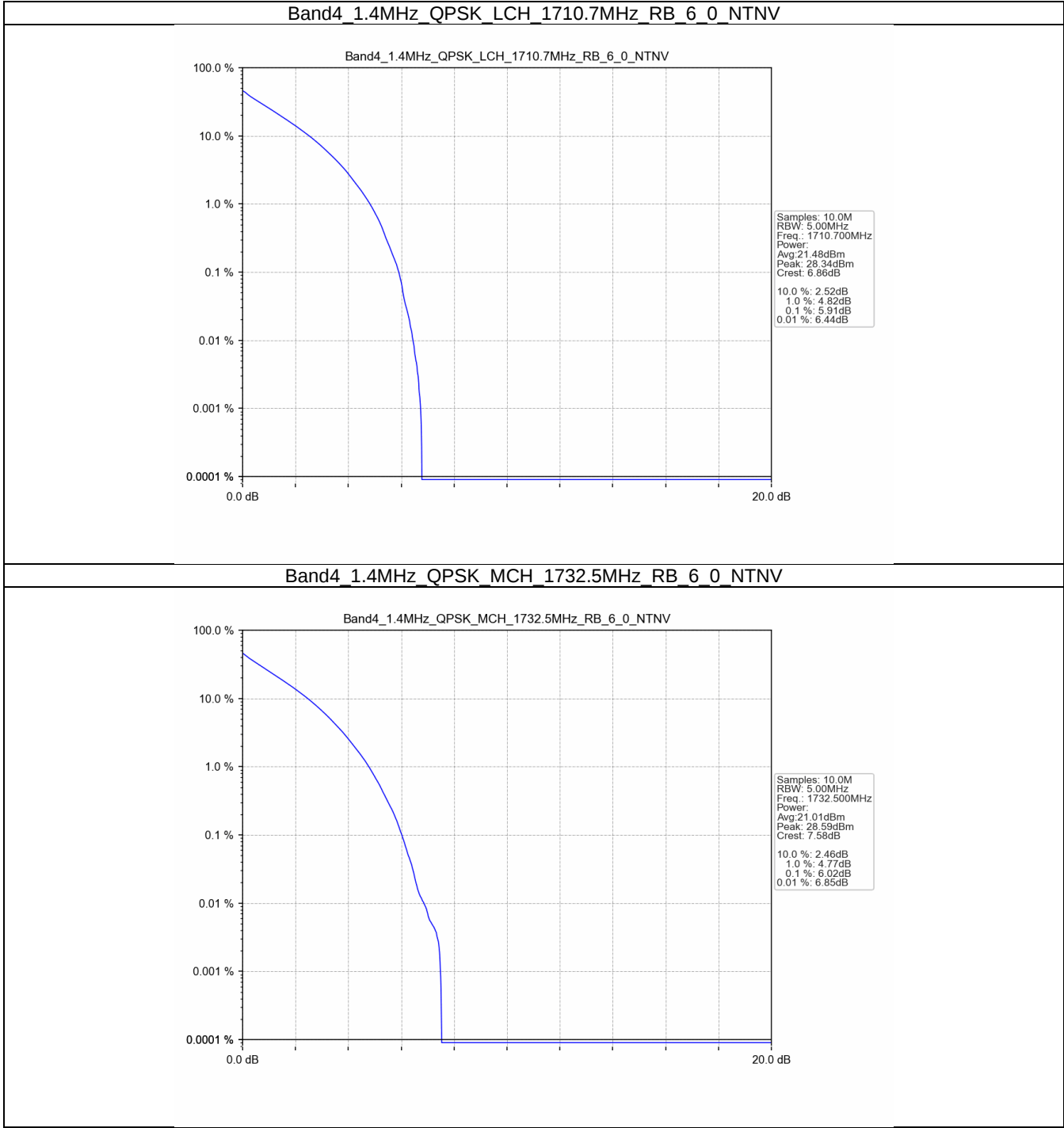
| Band: 4 / Bandwidth: 15MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 1717.5          | 75            | 0      | 4.78                    | <=13  | Pass    |
|                                   | 1732.5          | 75            | 0      | 5.84                    | <=13  | Pass    |
|                                   | 1747.5          | 75            | 0      | 5.57                    | <=13  | Pass    |
| 16QAM                             | 1717.5          | 27            | 0      | 6.47                    | <=13  | Pass    |
|                                   | 1732.5          | 27            | 0      | 6.56                    | <=13  | Pass    |
|                                   | 1747.5          | 27            | 48     | 6.13                    | <=13  | Pass    |

#### 4.1.6 B4\_20MHz

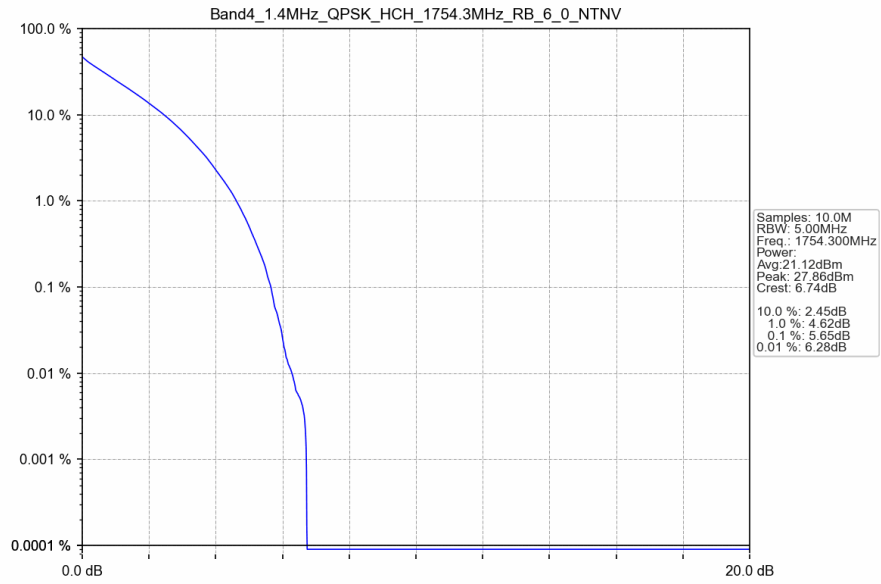
| Band: 4 / Bandwidth: 20MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 1720            | 100           | 0      | 4.73                    | <=13  | Pass    |
|                                   | 1732.5          | 100           | 0      | 5.79                    | <=13  | Pass    |
|                                   | 1745            | 100           | 0      | 5.48                    | <=13  | Pass    |
| 16QAM                             | 1720            | 27            | 0      | 6.45                    | <=13  | Pass    |
|                                   | 1732.5          | 27            | 0      | 6.55                    | <=13  | Pass    |
|                                   | 1745            | 27            | 73     | 6.00                    | <=13  | Pass    |

4.2 Test Graph

4.2.1 B4\_1.4MHz



Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV

